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Vol. XIX.

APRIL, 1898.

No. 4.



KANSAS CITY

Medical Index

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COMING SOCIETY MEETINGS Page 4.

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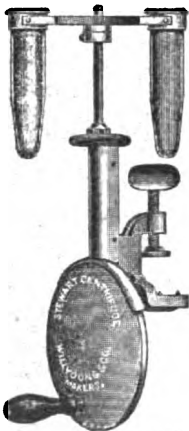
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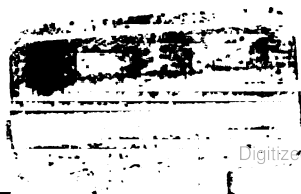
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CONTENTS.

ORIGINAL ARTICLES.

Acute Appendicitis—By C. B. Hardin, M. D., Kansas City, Mo.....	97
Serum Diagnosis of Typhoid Fever—By I. J. Wolf, M. D., Kansas City, Mo.....	101
The History and Diagnosis of a Case of Progressive Pernicious Anæmia, Complicated by Pyæmia—By C. W. Dullin, M. D., Kansas City, Mo.....	107
House Disinfection—By E. Von Quast, M. D., Kansas City, Mo.....	109
Abnormal Situation of the Anus—By D. W. Basham, M. D., Neal, Kans.....	110

COMMUNICATIONS.

Appendicitis with Perforation Under Twenty-four Hours.....	110
--	-----

SELECTIONS.

Something Right About Catgut.....	111
The Treatment of Hemorrhoids by Ligature, by Injection, and by the Clamp and Caustery.....	112

EDITORIAL.

The American Medical Association Meeting next June.....	117
---	-----

EDITORIAL NOTES.

Methylene Blue.....	118
Baby Murder in New York.....	118
Another Case of Bombast.....	118
Rubber Bags for Intestinal Suture.....	118
Retroflexion of the Uterus.....	119

CHALK TALK.

The Triangle Bandage.....	119
The Four-Tailed Bandage.....	120

SOCIETY PROCEEDINGS.

Jackson County Medical Society.....	121
New York Academy of Medicine.....	124

BOOK TALK.

Twentieth Century Practice.....	125
---------------------------------	-----

LITTLE ITEMS.

Little Items.....	125
-------------------	-----

READING NOTICES.

Reading Notices.....	126
----------------------	-----

SOCIETY CALENDAR.

Secretaries of Societies: Please report your meetings for these pages.

American Medical Association, Denver, June 7 to 10.

American Association Military Surgeons, Kansas City, June 1 to 5.

Western Surgical and Gynecological Association, Omaha, Dec.
28 to 29.

Missouri State Medical Association, Excelsior Springs, May 24,
25, 26, 1898.

Kansas State Medical Association, Topeka, May 4, 5 and 6, 1898.

Iowa State Medical Association, Des Moines, May, 1898.

Central District, Sedalia, Mo., postponed to May 5, 1898.

Southeast Kansas District, Parsons, Ks., first Tuesday in March,
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Golden Belt District, Abilene, Ks., May, 1898.

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October, January—migratory.

COMING SOCIETY MEETINGS.

Henry County Medical Society, at Clinton, Mo., April 7th.

Central District Medical Society, postponed to May 5, 1898.

Jackson County Medical Society, of Kansas City, second and fourth
Thursday evenings, 916 Walnut Street.

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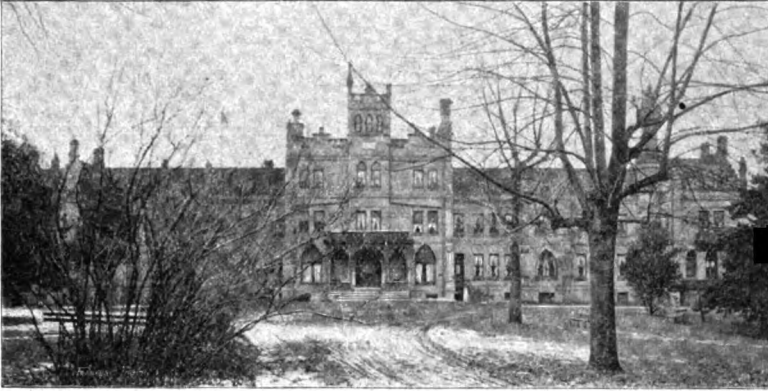
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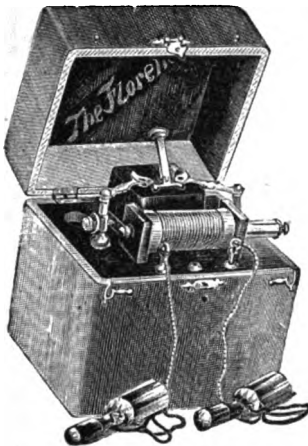
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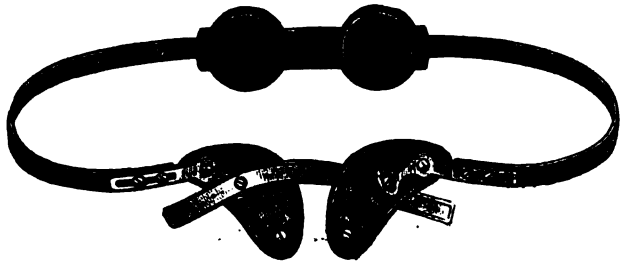
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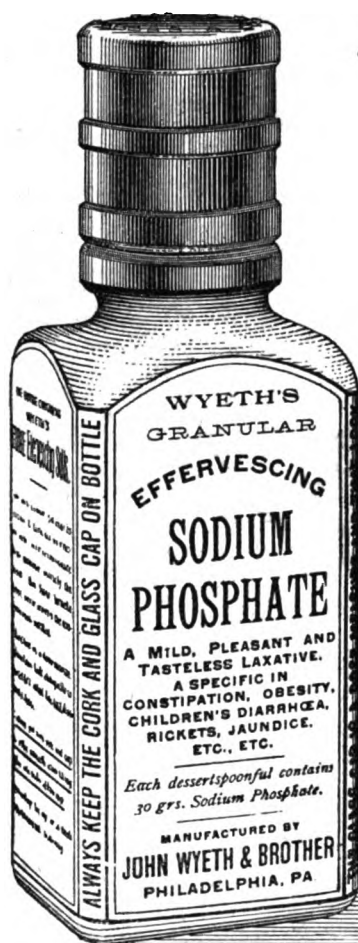
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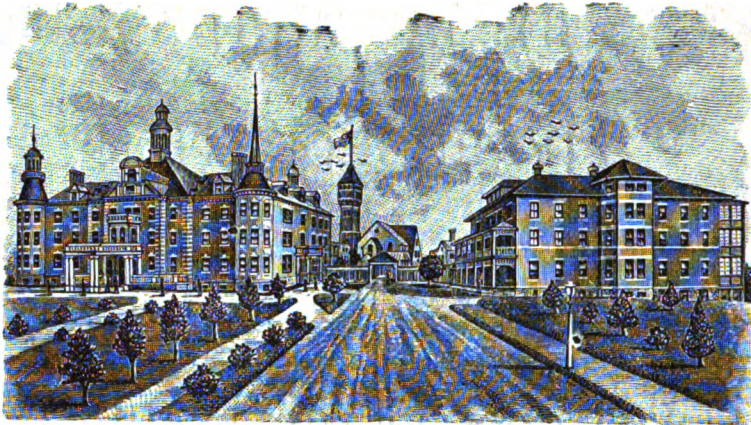
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KANSAS CITY MEDICAL INDEX

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WHOLE No. 220.

ORIGINAL ARTICLES.

Acute Appendicitis.*

BY C. B. HARDIN, M. D., KANSAS CITY, MO.

Affections of this little organ on the bridge which spans the distance between the large and small intestine, has made volumes of literature in medicine and in surgery; and today much obscurity exists as to the best way to deal with its diseased states. It is connected at its open extremity to the cæcal border, usually points upwards and inwards, terminating in a blind extremity from three to six inches long, composed of dense tissue, lined by mucous membrane and studded with numerous solitary glands, covered by peritoneum which sometimes forms for it a mesentery, and rests on a bed posteriorly of areolar tissue. Diseases of this organ (functionless so far as we know) partly belong as to treatment to the physician and partly to the surgeon. The affections to which we shall now specially confine our remarks are, simple inflammation, suppurative inflammation, and perforation of the appendix of the acute type. Fortunately the first variety is the most fre-

quent and the least dangerous, that of simple inflammation, while the other two (varieties) may only represent secondary and tertiary forms of the first. This organ, like all structures with mucous lining, is subject to catarrhal inflammation, which may originate from any of the series of causes producing this condition, in other similar tissues, and when thus affected, just as amenable to treatment as similar conditions in other like tissues of the body. If ordinary nasal catarrh (acute coryza) gets well, by judicious handling before œzma supervenes, equally sure does non-traumatic inflammation of the appendix do so as well. I am one who believes that most cases of this class get well, with *simple* treatment, and that it represents a large share of appendiceal troubles. This class of non-traumatic simple inflammatory states of the appendix, is the territory which belongs to the physician. The moment the transition is made from this state into one of pus formation, territorial

* Read before the Kansas City Academy of Medicine.

government has changed from physician to surgeon; let the foreign body or micro organism be what it may which initiates the change. That is to say, such a patient should, if not operated upon, be under the directing care of the surgeon. The location of an organ has much to do as to the triviality or seriousness of its diseased states. For instance, the presence of tubercular bacilli on the integumentary surface, producing lupus, is of trivial moment compared to their presence in lung tissue. The appendix is surrounded by brush piles ready for ignition by the bacillary torch at any moment, and the dangers here of unrelieved microbic action are too well understood, to require attention. To arrive at a symptomology of practical definiteness, as to *when* pus is present and when ulceration begins, and *from* what cause, is the thing to determine. At this point the general practitioner must not relinquish his just claim on appendicitis, and thus be driven from the field, even though the surgeon boldly and defiantly, yet mistakenly, claims it essentially and universally a surgical affection.

I think the above is somewhat the tendency of the present age.

Constantly claiming a thing wins its ownership quite often, whether right or wrong. Surgical claims in this disease have been ceaselessly widening in America since 1867 when Willard Parker first operated for suppurative appendicitis. This is partly justifiable, but the great merit lying within the circle of judicious surgical interference, *of itself*, tends to embolden the surgeon and cause him to go beyond proper limits and his rightful precincts. I will say, however, if this be not reasonably definable, and that if the physician be not reasonably sure of the simple form of inflammation, then the safe thing to do is to invoke surgical aid *or at least* surgical consultation. The diagnosis of the stages of appendicular inflammations therefore, *practically* defines the course to be pursued, and I think has not been given sufficient attention. I don't believe that it is so

easy of diagnosis, and that any ordinary practitioner of medicine or of surgery can simply, on entering the room, determine the trouble and its stage of action, as claimed by a gentleman of this city. It is time that we should stop calling every little pain at McBurney's point appendicitis, and advise the knife, operate, and feign great difficulty in breaking up adhesions (purely mental), mutilate the organ intra-abdominally, (out of sight) string the removed organ in alcohol, pocket several hundred dollars, turn and say to friends that you have just operated in time to save life, and this had been the hundredth operation without a death in the last twelve months. Of course death should *not* be expected to occur in the absence of a septic state, or in the absence of all signs and symptoms demanding judicious surgery. Now I hope I shall not be considered personal, for these remarks are directed to no particular individual, only to a class; but when a man has no mortality following his operations for appendicitis, and has much to do, it is a justifiable inference that his diagnosis is at fault, and that notwithstanding he has met with no mortality, he has probably taken many dollars to which he has no claim. To listen to the recital of the work of some, averaging several per week, a stranger would think that humanity in the last few years had been visited by a universal plague, whose chief characteristic was its epidemic nature, taking hold of whole families and communities in its deathly grasp, and that the only remedy advised, is to take away the offending organ at once, is queer. Yes, to this class I would suggest haste, else many of them will get well before preliminaries can be made for operation. I think this is apprehended and feared by some. This condition used to be the case in ovarian diseases, and so much of attention was paid to the unfortunates who happened to be afflicted with ovarian presence, and so much talk of operations for their impending danger,

that many women considered it a personal visitation of Divine wrath to have been born a woman, and wanted to be transformed at once into the opposite sex. These are crazes and forms of insanity, tinctured oftentimes with a high grade of selfishness, which have to be endured even in this age. I know of no one who practices this, but we all realize that it is a pest and species of imposition on the profession, as well as the laity, with which the world has been periodically afflicted for some time, and from which no civilized community, is *entirely* exempt. Of course statistics grown on this kind of soil, are very unreliable, and their wide range of application, and the low mortality recorded, invite surgeons of little experience to undertake operations of this kind. I take it as previously stated, that it is seldom the operation that should prove fatal, but rather the condition for which the operation is intended to relieve. So I doubt whether, after all, it is altogether complimentary to have no mortality attend appendiceal operations: And if such persons so claiming are not careful, their intention of conveying the idea of superiority of skill, will be deflected from its course by popular judgment, and hence bring discredit upon the operator as well as the operation itself.

I have before stated that simple appendicitis where may be expected even a circumscribed plastic peritonitis, including also the condition conveyed by Binnie and others, of appendicular colic or catarrhal condition of the organ in the large majority of cases, requires no surgical procedure in the acute attack. Still every case should be watched with an eagerness scarcely comparable in any other affection. We must remember that the appendix has no fixed position, and this variableness of position is increased after inflammation in its structure or region has taken place. It is sometimes straight, again tortuous or twisted; still again almost bent at a right angle upon itself, which affects its circulation as well as

its glandular and mucous secretion. A catarrhal state of its mucous membrane often starts from the cæcum and by continuity of structure produces like changes in the mucosa of the appendix; in this condition we find a swollen state of the mucous membrane, diminished calibre of the lumen of the appendix, increased glandular and mucous secretion, finally a congested state of the entire organ, and if unrelieved, necrotic changes in the involved tissues, thus giving the bacillus coli communis and other forms of bacteria a suitable soil for action. So many of these cases, stand in the light of preventive rather than curative treatment, and I think our efforts should be directed in the future more particularly in this direction, than heretofore.

I would in the majority of these cases not advise surgical interference for several reasons, and hence, would generally suggest the expectant plan, that is, the medicinal course. First, we know Nature has a remarkable tendency to restore injury wherever inflicted, which of course is largely dependent upon vital resistance of the subject. If the case presents with the well known symptoms of acute appendicitis, and the cause produce congestion or catarrhal inflammation from the presence of say, a faecal concretion, the judicious giving of laxatives with external applications, rest, and restricted diet, all tend to stimulate appendicular peristalsis, and thus extrude the offending body, and relieve your patient. Here, allow me to advise, as has so often been done, against the administration of opiates to too great an extent for reasons obvious to all. After removal of intestinal contents by laxatives, and sometimes better by large medicated enemas, the judicious administration of anodynes conserves Nature's forces by assisting the inflammatory process if continued to assume the plastic type. Second, I would not, except in rare cases, advise operating, because to differentiate between appendicitis at this stage, and other affections of that region is quite dif-

ficult, such as acute indigestion, renal or biliary troubles or if a female subject, to tubal disease. Exceptions might be made, however, where the symptoms are extremely urgent. The subject assumes a very different aspect where we are called to a case accompanied by all the signs of acute inflammation plus those of the presence of pus in the organ itself, ulceration thereof, or we can define a tumor, which latter condition, if due to pus formation, of appendiceal origin, would indicate a previous rupture of the appendix. It is a rule in good surgery, not always of universal application, however, to liberate pus wherever and whenever found. Nature suggests strongly in this direction in many suppurative appendiceal cases, by her tendency to wall off pus formation making them practically extra peritoneal, and if not liberated by art, forms a false channel into an adjoining cavity, as bladder, bowel or pleura, or plunge the abscess contents into the general peritoneal cavity, contaminated as they are, by noxious bacteria, and their products. This latter condition, together with a gradual leakage from the lumen of the appendix, into the abdominal cavity, constitute the great danger, of the future of the patient, entertained by the thoughtful surgeon. In the anticipation of this, where existing conditions, may or may not tend in this direction, invites the most discriminating judgment, of the surgeon, scarcely equalled in any other region of surgical diagnosis. Even after the formation of large abscesses around the appendix have occurred, we could burden your patience with statistical cures, *without* the intervention of the surgical art. On the other hand, many cases of reported death have occurred, when unrelieved without previous signs of even an abscess, but only a slow leakage of pus had occurred into the general peritoneal cavity. If the surgeon could be assured that suppurative appendicitis, would *always* be attended by the plastic form of peritonitis, and would not yield at any point, to pressure

from within, thereby excluding the general peritoneal cavity from invasion, extreme and immediate action of surgical interference could, in *most* cases be cancelled; but as our present knowledge affords us no definite data, to accurately determine, how thick may be the abscess wall, how virulent its contents, in what direction is its weakest point, and whether the local condition has rendered the appendix gangrenous, and many other undeterminable states, the surgeon *must* rely largely on skill, tact, and judgment, to conduct his efforts. Even though there is a mere leakage into the forbidden precincts of the abdominal cavity, if prolonged, or the pus be laden with noxious bacteria, *however small* the quantity, in this condition the peritoneum itself appeals to the surgeon for help, through the phenomena of inflammation. Nature has this way of manifesting noxious invasion, and asking for help. In view of many dying without operation, and others getting well under apparently similar circumstances with an operation, and vice versa, warrants me, I think, in concluding, that the only time when surgical interference, can claim to save life *certainly*, is to cure the patient, *after* invasion of the general cavity by infective material, whether from a leakage simply, or a spontaneous bursting of the peri-appendicular abscess. In the above statement the remote causes of death, where neglect and postponement are indulged in, are not spoken of, as rupture into pleural sac, bladder, etc., with their consequences. Operations then for acute appendicitis, naturally divide themselves into two classes, justifiable I think, if properly understood. First, the early operation which includes primary acute attacks, with unusually intense symptoms, which refuse to be relieved by active medicinal measures within a short time, and where the symptoms are also unusually persistent. I think where this fact is arrived at, that operation is advisable, when environments permit, even in the absence of pus

symptoms. In the second class or the late operation, in acute cases, are those where a tumor is definable of appendicular origin, provided the conditions are favorable, and in the judgment of the surgeon, there is danger of peritoneal invasion. In the second class would naturally be included those cases where already the abscess contents have escaped, or are escaping, into the abdominal cavity. It will be seen clearly from the foregoing, that there may be instances, where the wise surgeon would forego operation in both classes of subjects; these exceptions must ever be left to his judgment. You will perceive that I have refrained from dealing with long and dry statistics, and I can assure you that the above utterances are my own, no one being responsible for the many errors doubtless contained in this short paper. My claims in brief are these: First, that statistics prove a large per cent of primary acute appendicitis cases are of the simple inflammatory variety, that this is the most common form, that most cases get well under

medicinal treatment when seen early, and that this territory, as a rule, belongs to the physician, or, as commonly termed, the general practitioner. Second, that the claim of the surgeon is too broad in the statement (as often made) that appendicitis is always a surgical affection. Third, when pus formation, either in or outside of the appendix, reveals itself, surgical aid and co-operation should be invited. Fourth, that differential diagnosis of the stages of the affection has not reached that point we would desire. Fifth, that the safety under antiseptic precautions of entering the abdominal cavity, tends to rashness and indiscriminate operating, which distorts statistics, and renders them unreliable. Sixth, and lastly, that the disease as to its treatment in the acute form is, if we are to rely upon the statistics of the world, medico-surgical and not surgico-medical. I say this because the trend of authority seems directed to the "*Internal Operation*" as the one of election: when possible.

Kansas City, Mo., Feb. 5, '98.

Serum Diagnosis of Typhoid Fever.*

BY DR. I. J. WOLF, KANSAS CITY, MO.

The object of this paper is to call the attention of the Kansas City medical profession to a new method of diagnosing typhoid fever with the aid of the microscope. This method is generally known under the name of "Widal's" serum diagnosis and has already been in use for the past year in the laboratories of the Board of Health of the principal cities of this and the European countries. The importance of this subject and the fact that this test has been very little made use of here in Kansas City save by myself and Dr. Kruger for a few members of the profession, led me to respond willingly to the invitation of this society to present a paper on this subject.

That an improved method of diagnosis of typhoid fever is not unwellcome to the physician, is best recognized by those practitioners whose large practice brings them over and over again to the bed-side of a patient in whom the differential diagnosis of typhoid fever from other affections, is for a time at least, difficult or impossible even to a skilled diagnostician.

I well remember that when I first came to this city, some nine years ago, typhoid fever was thought to be rather rare, and only since men like Dr. Van Eman and others began to make post-mortem examinations of cases, supposedly dead from other diseases, and the knowledge of the

* Read before the Kansas City Academy of Medicine.

frequent deviations of typhoid fever from the normal type, amounting sometimes to entire absence of nearly all symptoms of the disease, has become more prevalent, has the existence of typhoid fever found to be not so rare after all.

The time that I shall devote to this paper is too short to allow me to present all the scientific details of the test, or to go into a historical account of the same. Suffice it to say that, as every other discovery in bacteriology, so has this one not been the result of an accident, but the logical outcome of patient and persistent laboratory-work and investigations concerning the subject of immunity. These investigations culminated in the discovery first communicated to the medical world June 26, 1896, by Widal, that the bloodserum of patients, suffering from typhoid fever, had the power to agglutinate and immobilize the typhoid bacilli when mixed with a pure culture of them.

There are two methods of making the test, the macroscopic or slow one, and the microscopic or quick one. The former consists in adding to ten parts of a pure typhoid bacilli-boullion culture one part of typhoid fever bloodserum. After two or three hours the turbid boullion culture becomes clarified and a clumping sediment composed of agglutinated bacilli makes its appearance.

The microscopic test consists in mixing a drop of bloodserum with ten drops of the culture and then examining one drop of this mixture under the microscope by the hanging drop method (which I shall demonstrate shortly). The reaction in this last test is considered to be positive, if after from thirty minutes to one hour the bacilli lose their motility and conglomerate in lumps of various shapes and sizes.

This reaction is a specific one in as far as typhoid fever bloodserum has no such effect upon other than typhoid bacilli and typhoid bacilli are not so affected by other than typhoid fever bloodserum. This specificity enables us on the one hand to make

in a given case a differential diagnosis of typhoid fever, and on the other hand to apply it for the identification of the typhoid bacilli in suspected waters, stools, etc., a task which has hitherto been found to be a very difficult one.

But this specificity of the reaction is a quantitative one rather than a qualitative one. For it has been found that this peculiar agglutinative power is inherent in mostly all bloodsera, to such a small degree, however, that it can be easily overcome and eliminated by diluting the serum with water in the proportion of 1 to 10 in which dilutions only the specific agglutinative power of the serum is conserved.

More than one year's experience with this test has demonstrated that in order to be accurate and relied upon, it is necessary to observe certain precautions. One of the main points to observe is the reaction of the boullion in which the bacilli with which the test is made are grown. W. H. Welsh, of Baltimore, in a lengthy and beautiful paper read on this subject before the forty-eighth annual meeting of the American Medical Association at Philadelphia, June 1 to 4, 1897, says in regard to this point: "The medium should be favorable to vigorous growth, and not too strongly alkaline." This, gentlemen, is entirely misleading, if not incorrect. For I had occasion to repeatedly observe that in an alkaline medium natural clumping of the bacilli, with or without the addition of bloodserum, was not infrequent and gave rise to so called doubtful reactions and difficulty in their interpretation.

Wyatt Johnson, of Montreal, has made a great many investigations and experiments in regard to this point and ascertained that an acidity of the medium of thirty-five to the phenolphthalein as indicator was the best reaction and furnished a culture in which spontaneous agglutination was never observed. The cultures themselves should be fresh eighteen to twenty-four hours boullion cultures, made from stockcultures on

agar-agar and grown in the incubator at about 100° F. Such a culture is free from sediment and presents only a turbid appearance.

Of not much less importance is the question of diluting the serum, in order to eliminate the natural agglutinative power inherent in all sera. If you consider the fact that typhoid fever blood serum often shows an agglutinative power of 1:1000 and even more and very rarely one less than 1:10, whereas the normal agglutinative power of the non-typhoid blood serum is much less than that and in only rare instances is as high as 1:10, it follows that Widal's first recommendation to dilute the serum 1:10 may safely be adopted for all practical purposes. It is well, however, to add that for such a dilution, a thirty to sixty minutes time limit should be adopted; that is to say: the reaction, to leave no doubt, has to take place within thirty to sixty minutes.

This understood, the question yet to be considered, is: what constitutes a reaction? Is it, as Stern claims, the clumping, or, as Kuhnar suggests, the paralysis of motion, or as Welsh, Widal and others insist, both? At present, the opinion of most observers is that a typical reaction consists in both agglutination and loss of motion of the bacilli. In some cases the one phenomenon, in others the other is more prominent and first in appearing, but in most cases both phenomena make their appearance in due time.

These, gentlemen, are the principal points to be observed in making the test, both for practical and scientific purposes.

The question has been raised whether this reaction was one of infection or immunization? For various reasons, which I will not now mention, most observers regard the reaction as one of infection. And yet, personally, I am strongly inclined to look upon it as one of immunity, inasmuch as the reaction in most cases can yet be gotten long after infection has ceased and the patient recovered from his attack.

Wherein the nature of this agglutinative and bacteriolytic power of the bloodserum consists has not yet been demonstrated. If they are substances of a definite chemical composition, they have not been isolated. Suffice it to mention that this agglutinative power survives desiccation of the blood for months and may persist for months in serum, even when this is seriously contaminated with microorganisms. It is annulled by heating for ten minutes at 75° to 80° C.

Besides in the serum it is present in all serous fluids, blisters, milk and other body fluids.

"Thus far," says Welsh, "we have no satisfactory explanation of the production of the phenomenon of agglutination by specific serum. The phenomenon occurs with non motile as well as with motile bacteria, with dead as well as with living germs. Typhoid bacilli killed by formalin or by heating for five minutes at 58 C., are as sensitive to the reaction as the living bacteria," a fact which only increases the mystery as to the nature of these agglutinating substances.

This much about the test itself. If we come to its practical applicability to the diagnosis of typhoid fever, the first question that arises is: "How early in the disease is this test available for diagnostic purposes and how long does it continue?" The general consensus of opinion among the different observers is, that the reaction can usually be expected to be present by the end of the first or beginning of the second week, although, according to Johnston, it may appear as early as the second day of the disease. It should not be forgotten, however, that the reaction is sometimes delayed until the end of the second or beginning of the third week, and in rare instances is missed altogether. We meet here with the same experience that we meet in sputum examinations for tubercle bacilli. A negative result of the test does not exclude the diagnosis of typhoid fever, while a positive one is positive evidence of the disease.

As to the percentage of failure to get the reaction in undoubtful cases

of typhoid fever, a few figures will convince you of its insignificance. Widal found it only once in one-hundred and sixty-three cases; of one-hundred and sixteen cases examined by Courmont, the reaction appeared in all, being delayed after the eighth day in only five. Of one-hundred and twenty-nine cases examined by Johnston, the reaction was missed in only one.

In this connection it is interesting to state that cases which present nearly a complete clinical picture of typhoid fever, but fail to give a positive test with typhoid bacillus, will give the reaction with the colon bacillus, thus suggesting the probability of the existence of a definite and distinct affection, the colon bacillus fever. Clinically, this fact, if confirmed by further observations, is of great interest and importance to the scientist as well as to the practitioner.

The importance of repeated examinations is illustrated by observations, in which the test was negative at the end of the second week and positive two days later (Sterm.)

The reaction usually disappears within two to six months after subsidence of the fever, but may on the one hand vanish as early as eight days thereafter, on the other hand persist indefinitely. This persistence of the specific reaction is of practical importance. Thus Courmont was able to determine by the serum diagnosis that a patient with multiple neuritis, supposed to follow an attack of dysentery, was in reality convalescent for one month and a half from typhoid fever (Welsh). The persistence of the reaction also emphasizes the importance of obtaining a careful history of the patient with regard to previous attacks of typhoid fever, before interpreting a positive reaction obtained with his serum.

Of no less practical importance is the question, in what percentage of cases of non-typhoid fever do we get a positive reaction with this test? As an answer to this question I will quote the words written to me by Dr. Johnston only a few weeks ago. "We

have just examined two-hundred non-typhoidbloods with absolute negative results; no reaction and no pseudoreactions."

In arriving at such beautiful and accurate results, he lays more stress upon the reaction of the culture than upon the dilution of the serum, which for clinical purposes need not be exact. But the reaction of the boullion, he insists, must be of a certain degree of acidity and not, as Welsh says, "not too strongly alkaline." "We have," says Johnston in another letter addressed to me, "got here to the point where we can produce at will, most of the pseudoreactions, which worry other people, by simply changing the acidity to various degrees of alkalinity."

Considering then that a positive reaction takes place in more than ninety-nine per cent of all typhoidbloods, and that non-typhoidbloods will give neither reactions nor pseudoreactions in properly conducted tests, it seems to me that the conclusion is justified that we have in this test a very valuable addition to our means of diagnosing typhoid fever. And with this conclusion my own observations harmonize in almost every detail.

My experience with this test has, it is true, been thus far very limited.

At first I was greatly annoyed in my work by so-called pseudoreactions; so much so, that in my despair I wrote to a friend of mine in New York, complaining that I had more trouble with the test than the reports of other observers seemed to justify. His answer was very unsatisfactory, and not until I communicated with Dr. Johnston, did I find out the cause of, and remedy for these pseudoreactions. And I take pleasure in using this occasion to publicly thank Dr. Johnston for the readiness with which he volunteered advice and gave me the benefit of his vast experience and experimental work.

My method of applying the test is the so-called dry blood method, originated by Widal and introduced into clinical work and boards of health by Dr. Wyatt Johnston. It is a very

simple and convenient method, eminently suited for the use of the physician, and fairly accurate. The blood, to be examined, is gotten by pricking the finger tips or lobe of the ear, previously cleansed, with a sterilized needle and placing a drop or two upon a sterilized piece of paper, such as the druggist uses for putting up powders. After allowing the blood to dry, fold the paper and send it to the laboratory. There I place a large drop of sterilized water on top of the dry blood drop, let it stand for a few minutes, and then take off a loopful from the top, taking care not to stir the clot. Then I mix this loopful of the blood-solution with a drop of twenty-four hour typhoid-culture, and examine with a one-eighth objective by the hanging drop method, watching the specimen for about one hour. If no reaction has occurred by that time, I set it aside to return to it again from time to time up to five or six hours. I regard the reaction as positive, if after a reasonable length of time, say one to two hours, decided clumping together with loss of motion of the greater number of the bacilli has taken place. To give you the results of my examinations up to date, I will briefly give a concise history of the following cases, kindly sent to me for examination by several of my colleagues:

First, case of Dr. Block's. Child, male, seven years old; cured of Pott's disease; presents an atypical case of typhoid; run of fever for five weeks; tympanites; vomiting; no diarrhoea; no spots; no pulmonary or tubercular trouble; test made on the tenth day of disease; positive reaction.

Second, case of Dr. Block's. Woman, twenty-two years old; duration of disease, twenty-one days; high run of fever; no diarrhoea; some tenderness in right iliac region; great nervousness; some delirium; recovery; test made on eighth day; positive reaction.

Third, case of Dr. Sloan's. Girl fifteen years old; a typical case; one month's fever reaching to $105\frac{1}{2}$; spots appearing late; typical tongue; test

made on seventh day; positive reaction.

There were two more cases in the same family, both of which were cases of typhoid fever, but no test was made in these two cases.

Fourth, case of Dr. Rosenwald's. Boy twelve years old; took sick with irregular chills; temperature irregular from 99 to 104; spleen slightly enlarged; diarrhoea; tongue moist; no spots, but hemorrhage. Test made eighth day; decided reaction.

Cases fifth, sixth and seventh, City Hospital cases; running more or less typical course of typhoid fever; test gives positive reaction in all three, although delayed in one of them.

Eighth, case of Dr. Block's. Gentleman seventy-five years old; no classical symptoms; irregular run of fever; great depression; severe cephalalgia; recovery after six weeks; test made on eighth day; positive reaction.

Ninth, case of Dr. Block's. Man sixty-two years old; said to have been ill when first seen, sixteen days; confined to bed three days; claimed to have had subnormal temperatures with slight rise in the evening; no diarrhoea; general melaise; had been heavily dosed with quinine; temperature $103\frac{1}{2}^{\circ}$ F., P. 57 Serum diagnosis negative; twenty-four hours later again negative; plasmodium supposed to have been found; large doses of quinine useless; four days afterward serum diagnosis decidedly positive; spots appeared; sudamina; great prostration; epistaxis; hemorrhage from bowels one week thereafter with temperature nearly up to $104\frac{1}{2}$; slow pulse; no delirium, but great nervousness and jactitation.

Tenth, case of Dr. Block's. Boy nine years old, nosebleed; sudamina; some diarrhoea; retrocolic abscess; operation ninth day; recovery; serum diagnosis negative.

Eleventh, case of Dr. Block's. Young medical student; sick sixteen days when test was made; reaction negative; had diarrhoea; irregular temperature. This is his fourth attack; treated once for typhoid in one

of the attacks; operation for appendicular abscess performed today.

Twelfth, young man, twenty-three years old; had for several weeks prior to becoming bedridden, pain in right iliac region, referred to appendix; irregular fever, (highest $101\frac{1}{2}$), running up to $102\frac{1}{2}$ to 105 immediately before operation for appendicitis, falling to normal on the day of and immediately after operation; from then on temperature gradually rose to 104° ; slow pulse; atypical tongue; no spots; serum diagnosis five days after operation very positive; this case run afterwards a protracted course of typhoid fever with hemorrhages.

Thirteenth, Arthur Calloway, City Hospital, twenty-eight years old, sick about five or six weeks; diarrhoea; rose colored spots; iliac tenderness; hemorrhages; delirium; temperature 102 to 104; pulse 96 to 110; tongue typical; typical reaction. This patient died afterwards from typhoid-pneumonia.

Fourteenth, John Basey, City Hospital, twenty-four years old; sick one month; diarrhoea; tenderness; cough; dry pleurisy; delirium; no spots; moist tongue: temperature 102 to $104\frac{1}{2}$; pulse 100 to 116. Reaction typical.

Fifteenth, Grace Adair, twenty years old, convalescing ten days; had diarrhoea; iliac tenderness; temperature 100 to 102; pulse 96 to 108; no delirium; no spots; no typical tongue; no hemorrhage. Clinical diagnosis; light attack of typhoid fever; test gives negative reaction.

Sixteenth, E. Ryan, City Hospital, thirty years old; convalescing one week from typhoid fever; typical; complicated with pneumonia; no hemorrhage; temperature 103 to 106; pulse 80; typical reaction.

Seventeenth, case of Dr. Sloan's. Woman, forty-five years old, who had an attack of typhoid fever thirty years ago; temperature 104 to $101\frac{1}{2}$; pulse 120 to 106; no spots; but petechiæ over abdomen and back; sensorium dull; spleen not enlarged; no epistaxis; epigastric tenderness and vomiting; tongue heavily furred, red on

edges; no diarrhoea; test made on seventh day; reaction negative; test repeated on tenth day; reaction again negative. The fever in this case subsided rapidly; clinical diagnosis; cryptogenic septic fever or remittent fever.

Eighteenth, case number nine, (old man sixty-two years old) was re-examined during beginning convalescence; reaction very decidedly positive.

Nineteenth, man twenty-eight years old; City Hospital case; sick for six weeks with typical case of typhoid fever; convalescing; serum reaction positive.

There are a few more cases in which I applied the test, in all I have made about twenty-five examinations; in no case did I get a positive reaction that proved afterwards to be something else but typhoid fever. Your especial attention I would call to the two cases of typhoid in old men, one sixty-two, the other seventy, in both of which did the serum test confirm the clinical diagnosis. It is my belief that this test will prove many a fever in old or young to be typhoid, though the latter is thought to be rare at extreme ages.

I also call your attention to the three cases of appendicitis, two of which gave a negative reaction, one however, a positive one, and this latter proved afterwards to run a typical typhoid fever course. Whether the appendicitis in this case was caused by the same typhoid poison, *i. e.* germ, or was an independent disease, is an interesting question.

The conclusion reached by me, even after so limited experience, is that this test is a valuable aid in the diagnosis of doubtful cases of typhoid fever and is another instance of the increased accuracy in diagnosis obtained by exact scientific methods. The test is in this respect to be placed alongside in importance to the staining of the tubercle bacillus for the diagnosis of consumption. And I would suggest that our city Board of Health follow the example of like institutions in the cities of New York,

Boston, Montreal, etc., and place the facilities of having this test made by its bacteriological department at the disposal of the local profession. If properly made, the test will clear up

many a doubtful diagnosis, and I am sure its value will only be denied by those who deny the relation of bacteria to disease at all.

210-211 Rialto Building.

The History and Diagnosis of a Case of Progressive Pernicious Anæmia, Complicated by Pyæmia.*

BY C. W. DULIN, M. D., KANSAS CITY, MO.

A case of anæmia is of little interest. But progressive pernicious anæmia is not of frequent occurrence and complications thereof are extremely rare.

The patient was a male, twenty-three years old; a native of Sweden; single, and had been an engineer. Family history negative. Has always had good health except an attack of scarletina when very young. Has never had a venereal disease and has always lived under comfortable circumstances.

While enroute to the United States from Sweden six months ago, became seasick on Atlantic. Has had poor health since, growing gradually weaker. Two weeks ago, was told by his physician that he had "Not enough blood." Two days later throat became sore, and it has become more and more annoying until this time, when he becomes my patient.

Is rational, poorly nourished, appetite poor, tires after little exertion. Pupils enlarged, equal and reaction normal. Retinæ normal. Scleræ pearly white. Conjunctivæ and other visible mucous membranes and skin extremely pale. Acute glossitis fetor ex ore, soft palate and pharyngeal vault hyperæmic. Right tonsil totally destroyed by suppuration.

Chest normal. Heart negative on percussion, but a faint systolic pulmonary murmur and hum over veins of right side of neck are heard. Lungs negative. Abdomen scaphoid, spleen not palpable. Limbs and genitalia negative. No adenopathy.

Cultures from tonsil show streptococci.

Cultures from blood show nothing. Number of red corpuscles ad c. mm. 900,000.

Number of white corpuscles ad c. mm. 16,000.

Hæmoglobin 25 per cent.

Average temperature at 4 P. M. for six days 99° F.

Average pulse at 4 P. M. for six days 96. Easily compressed.

TREATMENT.—Iron manganese. Kalium iodide, bichloride of mercury and mercurial inunctions, local treatment of throat with pyrozone and salicylic acid.

Large amount of gangrenous tissue removed from soft palate on various occasions. Severe hemorrhage from pharyngeal vault on sixth day. Could be controlled only by compresses. Compress removed on seventh day, when following signs and symptoms were noted:

Chill followed by temperature of 103° F.

Urine pale. S. G. 1.016. Considerable albumin, and few granular casts. No pus or blood.

Intellect not impaired, retinæ normal, increased pallor of skin and mucous membranes. Complaints of vertigo except when on back with head low. Both tonsils uvula and mucous membrane of pharyngeal walls and vault, completely destroyed by suppuration. Ulcer has hyperæmic base. Margin is ragged and covered with dark gangrenous shreds of foul odor.

* Read before the Kansas City Academy of Medicine.

A loud continuous hum is heard over both sides of neck and systolic murmur all over precordia. Complaints of paroxysmal pains in extremities, which is aggravated by pressure or motion.

Number of red corpuscles ad c. mm. 570,000.

Number of white corpuscles ad c. mm. 20,100.

Hæmoglobin 20 per cent.

The majority of discoid corpuscles were of normal size and outline, but a few microcytes and an occasional poikil ocyte were to be seen. No macrocytes or myelo cytes present.

The increase in white corpuscles 1:248, was of polynuclear neutrophile type alone.

Temperature after seventh and till tenth day, at which time death occurred, was high and irregular. Had during the seventy-eight hours four chills.

POST MORTEM EXAMINATION.—Body only fairly well nourished. Rigor mortis almost absent. Suppurative process in throat destroyed all tissues down to palatal and pharyngeal muscles.

Heart weighs 300 gms. Pale and soft. Microscope shows granular myocarditis. Endocardium normal. Pulmonary valves competent to water test.

Mucous membrane of trachea and larynx shows acute exudative inflammation.

Lungs normal except recent embolic infarct in right apex as large as pecan.

Spleen, soft and pale. Weight 240 gms. Microscope shows acute diffuse splenitis, with numerous minute abscesses.

Liver weighs 1,600 gms. Microscopically I find acute hepatitis with multiple abscesses.

Kidneys pale. Weigh 320 gms. Acute diffuse nephritis with formation of multiple abscesses. Slight evidence is seen of a beginning chronic interstitial nephritis.

Gastro intestinal tract normal except extreme pallor of mucous membrane.

Bone marrow shows no change.

Skeletal muscles pale and soft.

Microscope shows acute granular myositis.

The following conditions are etiological factors in fatal anæmias.

Hemorrhage, micro organisms in blood, ex. "*Cercomonas globulus*" and "*cercomonas navicula*." (Frankenhauser).

Chronic atrophy of stomach, exhausting diarrhoeas, chlorosis and purpura, renal, splenic, miasmatic, glandular strumous and malignant diseases.

None of these can be considered as an etiological factor in this case.

Essential anæmia is by some, regarded as a condition resulting from pathogenic bacteria affecting the blood itself, or the hæmatopoietic system.

That the anæmia was not a condition dependent upon vascular infection, is evident.

First. Because the anæmia was present long before development of tonsillitis and no signs of pyæmia were present until third week of tonsillitis.

Second. Bacteriological examination of blood prior to time of hemorrhage gave no results.

That immediate cause of death was pyæmia is shown clearly by post mortem findings.

That he had pernicious anæmia from following facts:

1. A continuous decrease in red corpuscles, with a plus percentage of hæmoglobin and presence of micro-and poikilocytes.

2. No leucocytosis, except of polynuclear neutrophile type, which occurs in all febrile diseases and during period of intestinal digestion.

The skeletal muscles in progressive anæmia are of dark red color. These were pale because of granular degeneration caused by pyæmic infection.

Changes in bone marrow occur in all profound anæmias and not alone in pernicious anæmia. But it always takes place late in disease. Because this bone marrow was normal, is no argument against pernicious anæmia, because it is reasonable to presume that had he lived longer such changes would have taken place. Likewise fatty degeneration of liver and heart.

501 Rialto Building.

House Disinfection.*

BY E. VON QUAST, M. D., KANSAS CITY, MO.

The enormous achievements in bacteriological science have caused very thorough investigations as to the best methods of disinfection for contagious and infectious diseases.

The demand was to find an agent which would thoroughly sterilize disinfected hospitals, schools, private houses, cars, (especially sleeping cars), ships, vehicles, etc., without destroying contents.

Sulphur fumigation was shown to be not only destructive to valuable material but also inefficient, especially in fumigating for pathologic germs; the disease, for which fumigation had been employed, often reappearing in members of family who had been absent during prevalence of the disease, or in subsequent tenants of the same house (more especially is this noticeable in typhoid fever and tuberculosis).

The clamor for better, more effective disinfection suggested washing and cleansing walls and woodwork and entire repapering and painting—this cleanliness so near to Godliness was probably more effectual than the sulphur gas itself.

To disinfect thoroughly means to destroy germs and spores which are in the dust or adhere to the walls, crevices, apparel, draperies, which sulphurous gas has never successfully accomplished. The same criticism may be passed upon the steam sterilizing process which is even more destructive to material than sulphur, besides the steam method requires an expensive plant.

The most valuable method at the present day, which has been fully investigated in eastern cities and laboratories is, formaldehyde gas. One quality which strongly recommends it is its non-destructiveness of material, in addition to which it *completely* destroys all micro-organism and their food; the truth of this has been proven by trial and experiment

by expert health officers and chemists of established repute in laboratory work.

For the purpose of generating formaldehyde gas a number of lamps and generators were invented and placed upon the market; in the lamp, methyl alcohol (wood alcohol) is used to generate gas by oxidation. The principal objection to the lamp is the slow process and insufficient production of gas, besides being uncertain in action.

Another successful method of using formaldehyde gas is by generating it from the forty per cent aqueous solution. An apparatus of considerable value has been invented by the Sanitary Construction Company, it was thoroughly tested by Doty of New York. It has been shown that formaldehyde solutions sold as 40% solutions frequently run as low as twenty-three per cent and that they are full of methyl alcohol which combines with an equal part of formaldehyde forming methyl oil which contains no disinfecting properties, therefore could not be compared with a reliable pure article. The most valuable apparatus for thorough disinfection is the Trillautoclave. I have had it on trial in the city work for investigation of its efficiency. We use in it a formo chloral which combines chloride of calcium with formaldehyde solution. The gas is generated under pressure which is rapidly released through a small tube from outside into the room or house to be disinfected. One quart of the liquid will disinfect a space of five-thousand cubic feet. All material should be exposed for not less than three hours, the fumigation should last from one to two hours, according to size of room; after withdrawing tube from key hole it should be filled tight with cotton and the room closed air tight from three to twelve hours. After opening the windows, ammonia

* Read before Kansas City District Medical Society.

placed in shallow vessels will cause the rapid disappearance of the gas.

In the light of recent events we all realize the urgent necessity for thor-

oughness in this work. Where human life and health is at stake, we should seek for and accept only the most perfect methods.

Abnormal Situation of the Anus.*

BY D. W. BASHAM M. D., NEAL, KANSAS.

A young woman, married, and the mother of two healthy children, came to consult me in regard to endometritis consequent upon an abortion. In the course of a digital exploration of the vagina the index finger encountered an aperture in the recto-vaginal septum. The opening was believed to be a recto-vaginal fistula, and in order to place the diagnosis beyond controversy an effort was made to introduce the index finger of the free hand into the rectum, and thus communicate with the finger resting in the supposed recto-vaginal fistula. The anus not being found by the finger, ocular inspection demonstrated its absence. The length of the perineum, extending from the posterior commissure of the vagina to the tip of the coccyx, presented a very remarkable appearance.

The patient gave a history of some times passing of flatus per vaginum, but she seemed oblivious to the fact

that feces were habitually being discharged by the same route.

Having established the fact that the anus communicated with the vagina instead of the external world, its form and situation were more carefully noted. The form was that of a buttonhole-slit with the long axis placed transversely to that of the vagina, and being possessed of sphincteric properties. The situation was about an inch within the vagina from the vulvar outlet.

While I deemed it feasible to split the perineum, dissect up the malplaced anus and liberate the rectum sufficiently to allow the anus to be brought down, and united to the skin, and to close the vaginal wall in front of the rectum, and perhaps establish something like a perineum I did not advise the operation, because the woman's health was in no way disturbed by the condition.

COMMUNICATIONS.

Appendicitis with Perforation Under Twenty-four Hours.

Patient, Ed. C.; age twenty years; tall, slender; family history good; was brought to my office February 1st, 1898, at 9 p. m.; said to be suffering from colic; severe pain in right hypo-region; temperature 103; pulse 125; respuetive 28 labored. At 11 p. m. a very severe chill and rigor set in lasting one hour; diagnosed appendicitis; called in Dr. Pickens, his family physician, who agreed on the diagnosis, and we at once advised a

laparotomy which was done at 4 p. m. the following day. Found perforation of the appendix; severe peritonitis; enteritis; quite tympanitic; found contents of bowel in abdominal cavity; also a large amount of exudate. Appendix adhered to abdominal wall; removed appendix; assisted by Drs. Perkins and Dittebrandt; flushed out the abdominal cavity with sterilized water.

Result; temperature and pulse fell

* Written for the MEDICAL INDEX.

to normal inside of ten hours, and patient out on the street in seven days. The notable points in this case are: Perforation of appendix inside of twenty-four hours from beginning attack, and notwithstanding the intense inflammatory conditions, the re-

turn of temperature to normal, inside of two hours from time of operation. It never was above normal afterward. Drs. Pickens and Dittebrandt were the consulting physicians and assistants. Respectfully, E. B. EMORY, M. D.

Winfield, Kansas.

SELECTIONS.

Something Right About Catgut.*

BY ROBERT T. MORRIS, M. D., NEW YORK CITY.

Several major points and several minor points about catgut will be remembered more easily if we group them separately.

Major Point No. 1. When buying catgut order the sizes by American standard wire gauge. Different dealers have an arbitrary numbering of sizes and that causes a great deal of confusion. An American standard wire gauge can be found in the hardware shops and in mechanic's work-rooms—and if you order sizes by that definite measurement, the dealer who receives the order can step around the corner and invest half a dollar in a proper little wire gauge which tells him how to number catgut accurately.

Major Point No. 2. The form of catgut is important because of the ease or difficulty in handling it.

I prefer the sort sold by dealers in watch makers' supplies. It is used for their bow drills, and goes by the name of "bow lines." Each bow line is one metre in length. As many strands as we choose can be removed from the bottle at the time of an operation, without contaminating the remainder.

Major Point No. 3. Catgut is satisfactorily prepared by the formal process. The word "formal" is the proper contraction for the word "formalin." The word "formalin" is the trade term for a commercial preparation of a forty per cent solution of formaldehyde gas in water. A

two per cent solution of this commercial formalin is what we mean when speaking of a two per cent solution of formal.

Major Point No. 4. Catgut raw, oily and dirty is placed in a jar of water containing two per cent of formal. The bulk of the water should be three or four times the bulk of the catgut. The catgut remains in this solution for forty-eight hours, and by the end of that time it has become hardened and sterile. It can then be boiled in water without suffering damage if the formal is removed.

Major Point No. 5. Formal is irritating to the tissues and it destroys catgut unless it is removed. Wash out the formal by putting the catgut in a bowl and letting water from the faucet run through it for twelve hours. Better attach a rubber tube to the faucet and drop one end of the tube in the bottom of the bowl of catgut so that water escapes upward through the mass of catgut—carrying formal with the overflowing current. The catgut which was hardened and sterilized is now contaminated by the tap water and it needs to be boiled in water for final sterilization.

Major Point No. 6. Boil the catgut in water for fifteen minutes.

Major Point No. 7. Put the boiled catgut in absolute alcohol and use it directly from the alcohol at time of operation.

* A Lecture at the N. Y. Post Graduate Medical School, Oct. 21, 1897. From the *New England Medical Monthly*.

Minor Point A. Catgut prepared by the formal process resists absorption in the tissues in proportion to diameter. We may expect that No. 16 American standard wire gauge will resist complete absorption for three weeks, while No. 26 will be absorbed in about a week.

Minor Point B. If you wish to prepare a lot of catgut with greater resistance to absorption, add one-fourth of one per cent of bichromate of potassium to the formal solution.

Minor Point C. Catgut does not dry so quickly on removal from the alcohol if five per cent of glycerine is added to the alcohol.

Minor Point D. Catgut placed in alcohol immediately after being boiled carries a good deal of water in its tissue, consequently it is better to abstract the water by placing the catgut in one jar of alcohol for a day and then transferring the catgut to another lot of alcohol for permanent storage.

Minor Point E. Catgut twists into knots when it is being boiled in water. To prevent this, bunches about the size of hen's eggs are firmly rolled in a gauze bandage and the bandage is tightly pinned before the lot is thrown into boiling water.

Minor Point F. Boiled formal catgut shrinks to about two-thirds of its former length, and is too elastic to be used with comfort. To obviate this a strand before being used is pulled out to its original length with the hands, when it suddenly loses its elasticity and remains at its original length.

Minor Point G. If catgut has been taken out of the alcohol bottle and not used at an operation, boil it again before replacing it in the bottle.

For fourteen years I have depended upon catgut for use in all of my work excepting in certain bone surgery which required the employment of silver wire.

During these fourteen years I have occasionally taken up other materials for sutures and ligatures, but have quickly discarded such materials for catgut again. *Kangaroo tendon* seems

to be as good as the best catgut but it is more expensive and the sources of supply cannot be depended upon. I used up a lot kindly given me by Dr. Marcy, and found it excellent, but no better than my own good catgut.

Silk often works out of a wound or scar slowly and causes troublesome sinuses. I have at present in the hospital a patient whose buried silk sutures have been gradually coming out of an abdominal scar for several years. The excursions of silk sutures are well known. The idea that silk knots hold better than catgut knots is advocated principally by men who tie granny knots. The first thing that a surgeon should learn is the tying of a square knot—but I have seen granny knots tied by at least one distinguished surgeon.

Horse hair, linen, Chinese grass and various other suture materials are advocated from time to time by men who do not prepare catgut well.

Silkworm gut is an instrument of the devil when used for buried permanent sutures. About three years ago I read an article on the use of silk-worm gut by a surgeon whom I knew to be a careful observer, and I was tempted to give up my good-enough catgut for something better. In the course of six weeks I employed buried silkworm gut sutures in some twenty abdominal operations for patients who had put confidence in me and had entrusted their lives to my care. At the end of the six weeks I found that some of these buried silk knots were coming out in strange places and some of them are coming out yet—three years elapsed. One patient died as the result of the burrowing of a silkworm gut knot in the pelvis several months after operation. Nearly all of the patients suffered in one way or another. The surgeon who wrote the paper advocating the use of the buried silkworm gut knot, has written another paper saying that he is sorry. Meanwhile, other surgeons are bringing discredit upon surgery by taking up this innocent looking suture material which

is so smooth and nice but which refuses to become encapsulated in the tissues, and which comes out of the bladder or iliac vein just after the surgeon has written his paper. A recent advocate of the buried silkworm gut suture intimates that some of us did not use aseptic precaution, and that we did not choose the right sort of silkworm gut. To this I will reply that most of my wounds healed completely by primary union and the knots came out months or years afterward. Further, as a fisherman I am

fully conversant with the subject of silkworm gut and have not been deceived in the quality of the material used. To those who say they have had no trouble with the buried silkworm gut knots I wish to say that they have not taken the trouble to find out. The trouble is all on the part of the patients. The patient goes to one surgeon for operation, and to another one to complain. So it requires two surgeons to write the history of buried silkworm gut.

The Treatment of Hemorrhoids by Ligature, by Injection, and by the Clamp and Cautery.*

BY HERMAN E. PEARSE, M. D.,

Professor of Anatomy, Kansas City Medical College; Consultant to the Kansas City, Fort Scott & Memphis R. R. Hospital, Editor "The Kansas City MEDICAL INDEX" Etc.

The victim of hemorrhoids sooner or later comes for relief to his doctor. He will ask first a prescription; that failing a treatment of some kind; last of all an operation under chloroform.

The anatomy of the parts explains well the classification of external and internal hemorrhoids. The former are derived from the inferior and middle hemorrhoidal veins, and the latter from the superior hemorrhoidal. The superior hemorrhoidal veins supply the rectum above the sphincters—have no valves, and empty into the mesenteric vessels and thence into the portal circulation. These form the internal pile, (where it is a venous tumor, as it generally is in the beginning,) and is caused by any obstruction to the circulation through, or disease of, the visceral venous system, as in liver diseases, retroversion of the uterus, stricture, etc. The middle and inferior hemorrhoidal plexuses supply the anus and contiguous structures, and empty into the iliac veins and thus into the right heart via the vena cava. Their dilatation becomes a fact when disease of the general venous system is at fault; as in protracted alco-

holism, hard coughing, lifting, etc.

The two anastomose, thus forming one of the means of collateral circulation when cirrhosis or other obstructive disease cuts off the portal circulation by pressure.

Clinically, however, we speak of external and internal piles according as they are above or below the grip of the sphincter, and we call them capillary, arterial or venous as they show a preponderance of these blood vessels.

As to treatment (the subject of this paper), we have three principal lines for attack, the injection of caustic and astringent substances, the ligature and excision, and the clamp and cautery. The injection method can be used on all kinds of cases—external, capillary, venous, strangulated and ulcerated, yet it is not desirable so to use it; in fact, the real usefulness of the method rests in the treatment of internal hemorrhoids of limited number and small size, that have not much ulceration; yet, I repeat, that with a good fluid and due care in its use it is possible to cure almost any case of hemorrhoids by injection, if the patient will spend time enough for

* Read before the Central District Medical Society, at Sedalla, Mo., November 4, 1897. From *Kansas Medical Journal*, November 20, 1897.

the treatment to be completed. When inflamed and engorged, it is better if the parts be relieved by a few days of preparatory treatment, which should consist of hot douches, rest, and cathartic doses of sulphur and cream of tartar to unload the portal circulation. When ready for treatment the patient is placed on his side, with limbs drawn up and the tumors brought into view. A five-percent solution of cocaine applied to the parts, relieves the pain, and a little straining will cause the pile tumors to protrude.

The tumor selected is then punctured with a fine hypodermic needle, attached to an ordinary hypodermic syringe, and a few drops of the fluid deposited into its tissue. In pendant tumors get into the center. In sessile tumors inject into their bases. Be careful not to inject the fluid into the muscular tissue of the bowel, as it will cause sloughing of tissue and much prolonged suffering. The portion of the tumor that has been sufficiently injected will turn a dull grayish color, showing the death of the tissue. Where in doubt as to the amount to inject, use two or three drops, and hold the needle in situ while awaiting its action. A few more may be required. I have used the following fluid with success, the formula for which I have taken from Dr. Agnew, of San Francisco, who published it in his book on this treatment:

SOLUTION 1.

℞ Plumbi acetatis.
Sodii biboratis, aa, ʒ ij.
Price's glycerine, ʒ i.

Mix in a graduate and let stand in a warm water bath for twenty-four hours.

SOLUTION 2.

℞ Calvert's No. 1 carbolic acid, cryst, ʒ j.
Aqua destil, ʒ ij.

When well dissolved, add six drams of No. 1 to ten drams of No. 2.

This makes a solution that turns pink on standing, and, unless warm, is turbid. It should be warmed before using. Only one, or at most two tumors, should be treated at one sitting. If there is much pain, hot sitz baths, opium and belladonna, or atro-

pine should be given. The anus should be covered with a pad of soft cotton or gauze smeared with vaseline. The bowels should be kept loose by sulphur in some form, either with cream of tartar or in the compound licorice powder. Weyth & Bros. make a very elegant tablet containing five grains each of sulphur and cream of tartar, which is a desirable form for administration.

CASE I.—Mr. S—, of Kansas City, Mo., laborer, employed in lifting and loading freight into cars at the freight depot, came to me February 21. His piles were four in number, ulcerated, inflamed, bleeding, and so sore that he could not work. He absolutely refused operation under anesthesia, and had tried many forms of ointments. I asked for two months to cure him, which he accepted. I kept him in bed one week, applying hot fomentations, when he came to my office for treatment.

After brushing the parts with cocaine, and placing a hot, moist towel against them, they came down readily, with a little straining, bleeding freely. I selected the worst looking one, and after five minutes spent in slowly injecting about twelve drops of the solution, had the pleasure and satisfaction of seeing it turn a dull gray color and shrink down. He returned every five days and was injected four or five times at intervals of five to ten days. He resumed work after the first injection, keeping the parts covered into the following:

℞ Fl. ext. hamamelis, ʒ i.
Powdered opium, ʒ ss.
Per-sulph. iron, ʒ i.
Vaseline, ʒ j.

Without further incident he continued his work and treatment, and was discharged perfectly cured. He is paying his bill by monthly installments, and each month expresses his delight at his easy cure. Should a method so useful be avoided because, forsooth, the ignorant quack has used it?

The clamp and cautery is a valuable method where the growths can be removed at one sitting under anesthesia. I wish to say here that I much prefer

to operate under chloroform upon these cases, for the following reasons:

1. It is more pleasant for the operator, and he can do better work under general than under local anesthesia.

2. The sphincter can be widely dilated, which alone is sometimes sufficient to cure the case, and always aids materially in cure by any method.

3. It is all done at one sitting, and the cure is thus more rapid and satisfactory.

I present the instruments used in the operation. The cautery is a Paquelin, and is at present charged with gasoline from the grocery. It works all right. The clamps are the pattern of Smith, Kelsey and Gant. I believe the Gant clamp is best. I like it best. I have operated with only a tissue forcep for a clamp, and succeeded, but it is not powerful enough to crush the tissue into a firm pedicle. It is best to divide the skin and mucous membrane at the base, fit in the clamp, close it, cut off the tumor with curved scissors, and roast the stump with the cautery at red heat. There is need to see that not only is the cut edge seared, but that the stump is hardened by the heat. The after care and dressing is the same as in case of injection. The patients go about in three or four days, and are entirely well in as many weeks, often in much less time.

The operation by ligature is the next to be considered, and is adapted, like the foregoing, to all severe cases of internal piles where excision under chloroform is allowed. The patient's bowels are emptied the previous day and cleansed by enema a few hours before operating. When anesthetized he is placed in lithotomy position, the sphincter well dilated and the skin and mucous membrane divided, a curved needle threaded with strong silk is passed through the center of the base, the needle cut off, and the two remaining ligatures tied both ways about the tumor, sinking the thread into the line of incision.

CASE II—*Clamp and Cautery*.—Mr. G——, farmer, had old hemorrhoids for six years. Was in bed with an

attack of the inflammation of the tumors, and had been for a week. Under his doctor's care he was treated a few days with hot fomentations and laxatives. The soreness, however, did not disappear. He accepted offer of operation, and was anesthetized August 16th. Three stumps were made, each in succession being brought down and the base encircled by an incision running through the mucous membrane and skin. To each in turn the clamp (Kelsey's) was applied, and the tumor cut away with curved scissors. An assistant meanwhile was preparing the cautery, and the stump was immediately and thoroughly seared. The patient had retention of urine, and suffered some pain the first thirty-six hours, but the parts were kept smeared with vaseline containing belladonna and carbolic acid and one-fourth grain morphine administered hypodermatically. On the 20th he was in the yard, and on the 22nd, seven days after operating, rode to town in his wagon. The bowels were kept loose with compound licorice powder at bed-time. His recovery was perfect.

CASE III.—Mr. G——, of Stockton, Mo., had been a severe sufferer from piles for about three years. As often happens, much of the pain was caused by a fissure, though attributed to the pile tumors. Operation was accepted and performed August 21. The bowel was prepared by his doctor, Dr. E. A. Smith, the day before, and an enema given an hour and a half before the operation. Under anesthesia the anus was thoroughly dilated and the tumors brought down. Each was in turn grasped by the pile forcep, and the base encircled with a cut running through the skin and mucous membrane. The curved needle was then passed through the base of the tumor and a double silk ligature drawn through, the needle cut off, and the two ligatures thus formed carried, one forward, and the other backward, and securely tied, sinking them well into the cut. The tumor was then cut off. The fissure was curetted, the sphincter again stretched and the

rectum, which was much ulcerated and bleeding, packed with iodoform gauze. The packing was removed in thirty-six hours, and the parts smeared with carbolized vaseline and a pad of gauze placed over it. Two ligatures came away the fifth day, and the third on the seventh day. Three weeks later the doctor wrote that the man was well and could walk, work, and sit down without pain, and bowel movements were free and painless.

DANGERS—

1. *Injection Method.* — Extensive

slough, and pain from inflammation of cellular tissue beyond the pile.

2. *Ligature.*—Retention of urine; swelling of parts with pain; tetanus.

3. *Clamp and Caution.*—Retention of urine; pain and swelling; free hemorrhage in twelve to twenty hours; tetanus.

4. *All.*—Shock from operation; secondary hemorrhage.

I have never seen serious trouble or death follow an operation for hemorrhoids.

1018 East 15th Street.

A Practical Course in Urinalysis.

Beginning with April the 15th, 1898, Dr. Theodore W. Schaefer, Professor of Chemistry in the University Medical College, 913 East Tenth Street, Kansas City, Mo., will give a course of ten lessons in Urinalysis to practicing physicians. The fee for the course is ten dollars. The course will be demonstrated by actual work on pathological specimens of urine with the aid of the microscope and chemical tests.

N. B.—Samples of pathological urine examined microscopically and chemically for physicians. The fee for such an examination is from five to ten dollars.

For further information, address

THEODORE W. SCHAEFER, M. D.,
906 Main Street, Kansas City, Mo.

Papine.

BATTLE & Co.,
CHEMISTS' CORPORATION.
2001 Locust Street,

St. Louis, Mo., March 4, 1898.

Dr. A. M. Ritter, of Milo, Ohio, January 29th, 1898, writes: "I wish to speak especially of the merits of Papine, as an analgesic and sedative. I have had success with it when all other remedies of like character had failed. One case in particular of intestinal indigestion, in a child twelve months old, attended with a great amount of pain, and extreme nervousness, and insomnia. The remedy worked like a charm in relieving pain, and giving rest. The remedy was given in five-drop doses to begin with, as required to give rest and relieve pain. Papine was used in this case for at least six months, in increasing doses, without doing the least harm. It has been now three months since Papine has been discontinued, and the child is in perfect health. I consider Papine one of our most valuable remedies as a pain reliever and nerve sedative in well-selected cases.

Antitoxin and Mortality.

Prior to the introduction of Anti-Diphtheritic Serum, the mortality from diphtheria at the Harper Hospital, Detroit, averaged for a number of years forty per

cent. According to the thirty-fourth annual report of the Hospital authorities, as published in the February number of the *Harper Hospital Bulletin*, page 73, 141 cases were treated at the Hospital during 1897, with the following results:

	Cases	Deaths
Ordinary Diphtheria	115	1
Laryngeal Diphtheria	26	6
	141	7
Excluding two cases Moribund on Admission	2	2
	139	5

Mortality under Antitoxin Treatment 3.6 per cent.

The antitoxin employed exclusively in Harper Hospital during 1897, was the Anti-Diphtheritic Serum of Parke, Davis & Co.'s Biological Department, and the remarkable reduction displayed in the death-rate reflects the highest credit on the efficacy of this matchless product.

Pinus Canadensis.

DR. C. MORROSA, 1045 Mission St., San Francisco, Cal., says: "I have used S. H. KENNEDY'S EXTRACT OF PINUS CANADENSIS (WHITE) in one case of gonorrhoea. A lady had a discharge for months and had been treated with iodine crystals in water as an injection with no effect except to soil her clothing, I gave her a bottle of S. H. KENNEDY'S WHITE PINUS CANADENSIS giving directions for use as injection internally, gave fluid ext. prunus virg as a tonic. She lives in Alameda, and only yesterday she sent me some other sufferers, telling them I cured her. I will say in conclusion that your preparations are good. I have used them in some minor cases that I did not think worth while noting at the time, always with success.

Polk's Directory.

POLK'S MEDICAL AND SURGICAL REGISTER OF THE UNITED STATES AND CANADA is now undergoing its fifth revision. Physicians who have not given their names to the canvassers are urged to report to headquarters at once, giving full information. Address R. L. Polk & Co., Detroit, Mich.

Kansas City Medical Index.

HERMAN E. PEARSE, M. D., EDITOR AND PUBLISHER.

1018 East Fifteenth Street,

KANSAS CITY, MO.

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EDITORIAL.

The American Medical Association Meeting next June.

The indications now are for a most successful meeting of our American Medical Association. One of the most important matters in connection with the meeting has been the question of railroad rates. This has been very fortunately settled by the action of the Western Passenger Association last week in announcing an open rate of one fare plus \$2.00 for the round trip. This will insure a full attendance, in so far as low rates can do so.

The preliminary programs are in and show a tremendous amount of work brought forward by the best of our members. All are interested and at work and a scientific program of more than usual excellence and value may be expected. Thus is the question of the excellence of our scientific program assured.

There remains only the question of accommodation and entertainment at

Denver. The editor has spent many days in Denver and knows whereof he speaks when he says: All will be well cared for; each will be well fed; none will lack a bed or a meal and no one will be charged more than a reasonable price for what is given him, recent experience at Philadelphia and the explosion of vague hysteria from the *New York Medical Record* to the contrary, notwithstanding.

The *Colorado Medical Journal* says: "We regret that the editor of the *New York Medical Record* has had some misunderstanding with the Brown Palace Hotel management as regards rates; and the former, through his official position, has seen fit to criticize the Denver hotel business in general, and to make statements about the hotel rates that are to be in force during the meeting of the A. M. A., which are greatly in error. If there is one thing about the Philadelphia meeting that the local committee here wish to correct in our June meeting it is the question of hotel rates, which

the slang term 'hold up,' would well apply to as regards the way the visitors were treated in that city, and the committee here have guarded well against that disagreeable feature by making definite business arrangements with the Denver hotel men, whereby reduced rates have been made and will be kept. We hope the readers of the *New York Medical Record* will investigate for themselves before they allow themselves to be scared away from the Denver meeting by the article referred to."

There is no fear of excessive charges by the Brown Palace Hotel (one of the finest and most comfortable in the world) or any other Denver hotel.

The Burlington, Missouri Pacific and Rock Island roads will run special trains. The Union Pacific is not yet in evidence but may have one. The Santa Fe with its beautiful road bed and its perfect connections will carry many and should be a favorite to those who care for the ride by the foot hills. Away for Denver June 6 to 10.

EDITORIAL NOTES.

Methelene Blue.

This agent has been lately used in chronic malaria, chronic sciatica, rheumatism, chronic albuminuria, locomotor ataxia, etc., with some success. The drug must not be confounded with methyl blue or with fuchsin. The drug to use is methelene blue or roseaniline hydrochlorate; it is given in doses of one-fifth to three grains three times a day. As high as sixteen grains per day have been given, coloring the urine, saliva, sweat, and eye humors blue.

their advertisements. It says on a certain page that "The advertising of medicines of secret composition is the disgrace of medical journalism and all physicians who have the honor and dignity of their calling at heart, should demand that it be stopped." On the *back of the same leaf* appears the advertisement of "Dioivburnia," an excellent medicine but of a composition unknown so far as the advertisement shows. It is followed *on same page* by one of "Mentholyptine." Oh! Consistency! etc.

Baby Murder in New York.

We learn from an eastern journal that the bodies of twenty dead babies were found in the streets of New York during the month of January.

Another Case of Bombast.

A new and *very* ethical medical journal which "stands up so straight it falls backward" has set apart a liberal space to abusing its fellows who are not "ethical" in the choice of

Rubber Bags for Intestinal Suture.

January 8th, 1898, Dr. Geo. Wackerhagen of Brooklyn, published in the *New York Medical Journal*, his discovery of the inflatable rubber bag for use in end to end anastomosis of the intestine. He says he conceived the idea in December, 1897. On the same day, January 8, 1898, Dr. W. S. Halstead published the same discovery which he had made independently of Dr. Wackerhagen, in the *Philadel-*

phia Medical Journal. Each claimed to be the "original discoverer." Our friend, Dr. Emory Lanphear at once wrote east and informed the editor that neither was the first to make the discovery as Dr. Francis Reder, then of Hannibal, now of St. Louis, had published in the *International Journal of Surgery*, a paper describing this method in 1892, and had read it before the Tri-State Medical Society. Dr. U. C. Lynde, of Buffalo, N. Y., now proves that he used the same device in 1897. Verily, there is nothing new under the sun.

Retroflexion of the Uterus.

Dr. Hunter Robb says in his recent article on "Retrodisplacements of the Uterus" in the *Philadelphia Medical Journal* that pessaries and tampons are of use in displacements when the vaginal outlet is intact and when no serious adhesions or inflammatory processes are present. He sums up as follows: "In my experience if the retrodisplacement causes no symptoms it may be ignored. In proceeding to treat the retroflexion, the general health of the patient should first be attended to and the causes of the displacement should next be treated.

Only after this should the organ be replaced, after which it may be retained in position by appropriate methods (pessary and tampon). When only trifling adhesions exist reposition is best brought about by the bimanual method, the sound or repositor being employed but rarely. When the uterus is firmly bound down and when serious disease of the appendages is suspected no attempt should be made to replace it by taxis. When the retrodisplaced uterus is adherent, efforts should first be made to break up the adhesions by means of massage. Alexander's operation should only be performed after all these means have been tried without success. This procedure is not applicable to cases in which the uterus is adherent or diseased, or when there is any abnormality in the condition of the pelvic peritoneum or adnexa. Lastly, when dense and persistent adhesions exist, celiotomy should be performed, the adhesions broken up, the uterus brought forward and a properly-fitting pessary placed in position, or after breaking up the adhesions and bringing it forward we may fix the uterus to the abdominal wall."

CHALK TALK.

BY THE EDITOR.

The Triangle Bandage.

The triangle bandage is a valuable one to the general surgeon, and one much neglected. It was brought to the notice of the world by Prof. Esmarch, of Germany, and bears his name. It is easily made from muslin, a large towel, a napkin, etc., although strong, unbleached muslin is best. It is made in the shape shown in Fig. I, (A) being the base,

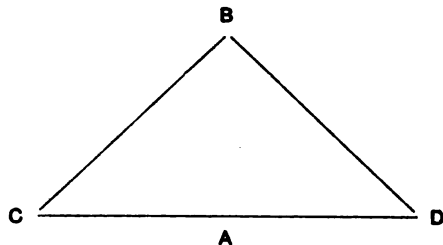


FIG I.

(*B*) the apex, and (*C* and *D*) the ends; "basal ends" they are called.

The following description of the appearance and application of this excellent bandage to the head, comes from "Prompt Aid to the Injured," one of Appleton's books:

"*Head* (Figs. II and III).—The base (*A*) is placed downward over the brow, with the apex (*B*) at the nape of the neck. The basal ends (*C* and *D*) are carried backward above the ears and crossed over the apex *below* the external occipital protuberance, the "bump" on the back of the head; this prevents the bandage from slipping upward; the basal ends are then returned to the front and tied, the apex being turned upward and pinned to the body of the bandage."



FIG. II.

We show in Fig. II the appearance of the dressing complete. Fig. III



FIG. III.

shows how the dressing appears from behind.

We shall show in next issue the application of this bandage to the knee, shoulder, and other parts.

The Four-Tailed Bandage.

From the same excellent work we take the following description of the four-tailed bandage. This useful little appliance can be used, as suggested by the ingenuity of the surgeon, in many other ways, and is always a pleasure and a satisfaction.

"The **FOUR-TAILED BANDAGE** is made of a strip of muslin about one yard and a half long and four inches wide, folded and torn from the ends to within two inches of the center of the bandage. One pair of tails is usually made broader than the other. One purpose of this bandage is to support the lower jaw after a fracture or dislocation. It is to be applied by placing the center of the bandage against the chin, with the wide tails below, when the latter are turned upward and tied on top of the head; the upper or narrow tails are carried backward and tied at the nape of the neck (Fig. IV); two handkerchiefs, each folded in the form of a cravat, may be used for this purpose. A four-tailed bandage, for the purpose of protection



FIG. IV.

and retaining dressings about the head can be made of a piece of muslin, about one yard and a half long and one foot or more in width, folded, and torn from the ends to within six inches of the center. The bandage is placed on the head, the anterior tails being carried backward and tied at the nape of the neck, while the posterior tails are tied under the chin. If it is required that the bandage should be applied to the back of head, the anterior or upper tails are tied beneath the chin, while the posterior or lower tails are tied upon the forehead. A four-tailed bandage may also be used at the knee. It should

be made of a strip of muslin about eight inches wide and one yard long, and applied by placing the center of the bandage over the patella; the upper tails are carried backward,

crossed behind the knee, then brought forward and tied in front below the patella; the lower tails are manipulated in a similar manner, but tied above the patella.

SOCIETY PROCEEDINGS.

Jackson County Medical Society.

Regular meeting was held in the hall in Masonic Building, Feb. 24, at 8 p. m. Dr. Franklin Murphy was elected secretary to fill the vacancy made by the resignation of Dr. C. M. Fulton.

DR. H. E. PEARSE presented a case of atrophy of the supra and infraspinatus muscles (of the right shoulder). The man had been a fireman for a stationary engine and had used the arm severely. He noticed about six months ago that the arm was powerless in attempting to carry the hand behind the head. These two muscles are supplied by the supra scapular nerve which passes down the neck under the edge of the trapezius, thus exposed to injury in heavy work that calls this muscle into action. It supplies only these two muscles. The case was one for further observation, meanwhile hypodermic injections of supplied nutrition with massage were recommended. In the discussion Dr. Hanawalt said his impression was that the trouble does not come from injury to the nerves supplying the parts but rather to muscular injury, but a closer examination of the patient might cause him to change his opinion.

DR. WARD made a talk on his method of performing vaginal hysterectomy. He said:

"Too much pains cannot be taken in preparing patients for this, one of the most difficult, and yet when skillfully done, one of the safest operations in surgery. Not less than twenty-four, and better forty-eight or seventy-two hours of bathing, dieting and stimulating the patient should be enforced. Vaginal douches with some antiseptic

solution should be used three or four times prior to the operation, and at the time of operation the vagina should be thoroughly dilated and scrubbed with a strong creolin solution. I am opposed as a rule to shaving the entire pubis, because it is unnecessary and embarrassing to women of refinement. All that is necessary in most cases is to shave or clip with scissors so much of the hairy growth as would be in the way of the operation.

"Two assistants are necessary for rapid work; one to stand on either side of the patient while the operator sits in front. A trained nurse looks after the irrigating water and assists the operator in threading his pedicle needles, etc.

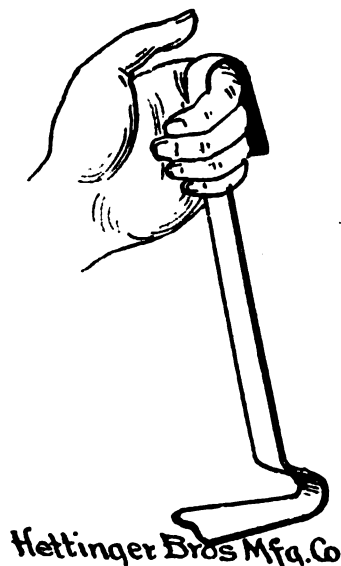


FIGURE I.

Anterior retractor; is light, long, and easily held.

"The patient is placed in the extreme lithotomy position with the buttocks brought down to the end of the table.

"The question of proper retractors has been one that has given me a great deal of anxiety, because those furnished by instrument makers have been so large and clumsy that in some cases of narrow vagina no room is left for manipulation when they are in place. I have recently had made by Hettinger Bros., some retractors, which in my experience meet every indication, and remove all the objections before mentioned.

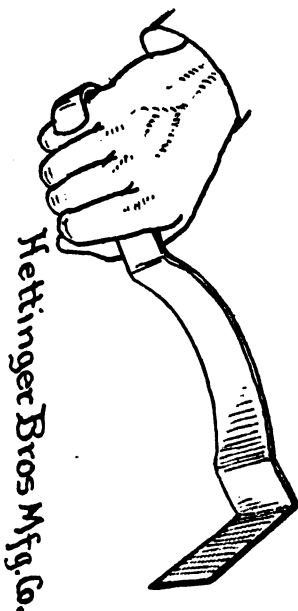


FIGURE II.

Lateral retractor, is light, broad, curved to avoid the buttocks or thighs, and easily handled and held.

The perineal retractor which I have used for a number of years is one made by a firm in Columbus, Ohio, and is self retaining and a great success in all operations of this kind.

"The incision separating the cervix from the vaginal vault, is always done with the scalpel. The separation of the uterus from this on is done with a dull dissector and the fingers. As soon as the uterus has been properly separated so that the uterine arteries can be reached, a ligature is

passed around first on the left side, tied and one end cut close to the knot while the other end is left long, grasped with a forceps and then the forceps is thrown onto the abdomen where it remains until another ligature is tied on the same side when the same steps are repeated. After the left uterine artery is ligated the cervix is severed from the ligated tissue with the scissors and then the right side is treated likewise. The uterus is pulled down lower each time, and after tying not less than two and perhaps three ligatures on each side the peritoneum in front is opened and with the index finger carried to the fundus of the uterus as a guide, a four-pronged hook is inserted into the extreme fundus of the uterus and that organ is antverted and brought out through the incision. The broad ligament is then ligated from above downwards, first on the left side until it is completely severed, then on the right side in like manner. When that portion of the operation is completed usually there are four and sometimes five ligatures on each side. After thorough irrigation with hot normal salt solution, the anterior fold of the vagina and the peritoneum are evenly adjusted and grasped by a forceps the posterior fold and peritoneum in like manner with another forceps, then the ligatures on that side are drawn taut so as to bring down the pedicle of the broad ligament and at the same time the forceps are carried up high so as to force the vagina up its extreme length, then with a curved needle in a needle carrier the anterior and posterior vaginal vault and the peritoneum corresponding are firmly sutured so as to hold the ligatures entirely in the vagina. The opposite side is treated in the same manner which naturally leaves a small space in the center of the vault for drainage, if drainage is desired, if not the peritoneum may be entirely closed by the use of the sutures as described. Nothing now remains but to insert little or much, as is found necessary, of iodoform gauze in the vault of the

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TESTIMONIALS.

Spasm in children. Nervousness and insomnia.

Dr. McAdow reports: "I have prescribed the Cordial Pas-carnata in several cases of threatened spasm in small children. In my hands it has proven a splendid remedy. A case of nervousness and insomnia in an old lady, a few doses acted like a charm."

In uræmic convulsions.

Dr. C. P. Hookett writes: "Cordial Pas-carnata proved a boon to me in a case of uræmic convulsions."

Insomnia from physical exhaustion.

Dr. Samuel C. Smith states: "Your advertisement in the *Medical Mirror* for November, page 26, and referring to Cordial Pas-carnata excited in me wonder that a preparation of this wide-spread usefulness has not been introduced to the medical profession before this. The therapeutic properties of the drug have been known to me for several years. It is first, a nerve sedative; second, a nerve tonic; a classification which though strange, is nevertheless true. It is undoubtedly a hypnotic and acts as such in insomnia arising from physical exhaustion."

Teething children.

Dr. G. Spiegel writes: "Your agent visited my office, and, among other preparations, recommended to me your Cordial Pas-carnata. A patient was announced. A baby was brought in crying from restlessness and from teething. Here, I thought to myself, was an opportunity to try the Cordial-Pas-carnata. I asked your agent for a sample, administered it on the spot with almost immediate beneficial results."

Sleeplessness of heart disease.

Dr. H. Neal writes: "A few days ago your agent kindly left me a sample of Cordial Pas-carnata. I have used this in a case of sleeplessness of heart disease in which other remedies produced no effect. The Cordial Pas-carnata brought such happy results that I shall continue to use it wherever indicated."

Insomnia of nervous temperaments.

The following personal letter, the original of which is on file in our office, is valuable testimony: "I am in receipt of your favor of the 6th, also the box of Cordial Pas-carnata recently ordered, for the prompt shipment of which you will kindly accept my most sincere thanks. Your Cordial Pas-carnata has become a household necessity with both my wife and myself. We are both of a nervous temperament and troubled with insomnia, and up to date I have been unable to find anything that will equal the Cordial Pas-carnata in the treatment of the above trouble."

By all means—try it.

L. B. Downing, druggist, writes: "In June I ordered your Fluid Extract Passion Flower as an experiment, for a son of 12 years, who has made very rapid growth, and was at the time very nervous, and several physicians had tried in vain to help him, one an uncle, in whose family he staid a month. My wife happened to see your circular on Pas-carnata, and on consulting the doctors who had treated him, they said, 'by all means try it.' The result was truly marvelous. There was a change for the better in four days. Facial and shoulder muscles were twitching when we commenced using it. In a few days they disappeared, and on 15-drop doses three times a day he keeps all right, apparently. I shall speak a good word for the medicine, as I have already done. Will you please send me some circulars to give to physicians."

Nervous irritation in women and children.

Dr. Jas. R. Dickens writes: "Your agent left with me a sample of your Cordial Pas-carnata, a preparation entirely new to our physicians. Its use thus far has not been extended; but as a remedy for allaying nervous irritation, especially in women as well as teething children, I find the Cordial meets a want in my practice which I have long desired to fill."

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vagina, the quantity to depend largely on the amount of oozing, which is sometimes quite troublesome. The ligatures are now removed from the forceps and tied in a single loop for the accommodation of the nurse in the after care of the patient. The usual dressings for operations of this kind are used.

"The patient after this operation does not sustain any shock because but little blood has been lost. In other words, the patient convalesces from the hour she is put in bed and there is usually but very slight suffering. The length of time that the gauze is to be left in-situ, is, in my judgment, not more than forty-eight hours. The gauze is used largely as a hæmostat to control the oozing from capillary veins and its office is practically ended when all danger of this kind is over. I usually have the nurse introduce gauze loosely into the vagina after this first packing has been removed in order to insure cleanliness more than for any other reason. The ligatures if properly applied and of proper material, namely, very small silk, will come away as a rule in ten or fifteen days. It is well to have the nurse use gentle traction once or twice a day after the first three or four days. This tends to prevent the ascension of the ligatures into the pelvis and insures more prompt loosening of these now useless strings. As soon as the vault is thoroughly united antiseptic douches should be used morning and evening.

"There is no reason for keeping the patient in bed longer than twelve days, and no special objection to having her sit in any easy chair even sooner. Three weeks is the average time a patient should remain in the hospital.

"Nothing original is claimed in this discussion of vaginal hysterectomy by the ligature method, except, perhaps, the special manner of carrying the vaginal vault up high and uniting it by sutures to the broad ligament in such a manner that the natural length of the vagina is retained.

"While I do not care at this time to

say any harsh things against the clamp method for hysterectomy, it seems to me to be so extremely cruel and unsurgical that no woman should be subjected to it under any circumstances, if possible to avoid it."

DR. H. C. CROWELL said that there were some objections to offer to Dr. Ward's practice. Every individual surgeon has his own plan in operative procedure, and he usually follows that which serves him the best purpose. Regarding shaving, he believes that most cases should be shaved; others may be operated on without the necessity of shaving. The principal thing is to get the external parts absolutely clean by some means. Regarding the method of securing the vessels, the clamp is undoubtedly the easier of performance, and he could see no objection to its use. With a normal-sized uterus and plenty of room, the use of the ligature may be advised. There is an advantage in the clamp that cannot be obtained with the ligature, which is the crushing and destroying of suspicious tissue that may be infected. He suggested that Dr. Ward used many unnecessary instruments. He believed that iodoform-gauze placed in the cavity after the operation should be allowed to remain five or six days, or longer.

DR. A. L. FULTON said the operation described was the first used in vaginal hysterectomy. He used it fifteen years ago himself, but it seemed to be replaced by other methods.

DR. BINNIE—One should not make use of too much purgation or starve the patient, as it weakens too much. He preferred the clamp method.

DR. AUSTIN wished Dr. Ward to point out the points of originality in his methods.

DR. PEARSE spoke of hysterectomy from the patient's side. The removal of a diseased uterus did not necessarily involve the removal of the ovaries. Tubes should follow the uterus, but the ovaries are of benefit to the woman's economy and should be left where possible. The remarks of Dr. Crowell as to the removal of

gauze were the proper thing. He endorsed them fully.

He complimented Dr. Ward on the originality and perfection of his retractors and other instruments. They showed a progressive spirit and good sense in applying the principles of mechanics to the work in hand.

DR. WARD in closing said this operation was far from being discarded. He did not claim originality but simply described his method of operating.

Adjourned.

[The proceedings of the Henry County Medical Society, the Southeast Kansas Medical Society, the New York Academy of Medicine and the College of Physicians of Philadelphia will appear in next issue, being crowded out of this issue.—EDITOR.]

New York Academy of Medicine.

Section in Orthopædic Surgery.
Meeting of December 17th, 1897.

DR. A. M. PHELPS read a paper entitled "A Consideration of Some of the Pathological and Mechanical Problems of Hip Disease." He presented the view that Nature attempted to repair the lesion producing hip disease by inflammatory action which was a normal process of repair until the inoculation of germ life which marked the beginning of disease in the area of inflammation. The absence of inoculation gave rise to ephemeral cases of hip disease which rapidly recovered without deformity or disability, but inoculation gave rise to the ordinary type of the disease. If the phagocytes were weakened by the strumous condition of the patient, they failed to destroy the germs. If, however, germ life was destroyed, repair went on and the parts were restored to their normal condition. Cavities and foci produced in the course of hip disease by the slow growth of the bacilli of tuberculosis might be inoculated by the rapidly growing pyogenic cocci when a hot and possibly painful abscess appeared and called for the knife and drainage. The adduction flexion and inward rotation attending the third

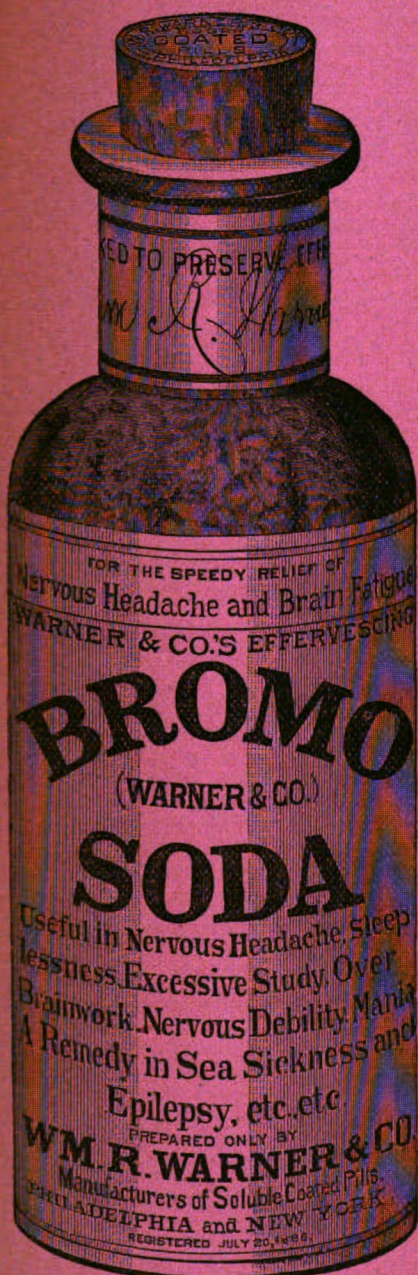
stage found a mechanical explanation in the fact that when the limb passed twenty-five degrees of flexion the adductors became internal rotators, the external rotators became abductors and the tensor vaginæ femoris became a powerful inward rotator. In the application of mechanical treatment it should be remembered that the powerful groups of muscles acting upon the thigh did not act on an axis with the shaft but nearly on a line parallel with the axis of the neck of the femur. Lateral traction, therefore, should be made in the line of the axis of the femoral neck and not of the shaft.

DR. G. R. ELLIOTT said that in hip disease we had a depraved process. The whole system was at a low ebb that tended to favor the development of the disease. He thought that this condition of inactivity required the use of some form of apparatus which did not, as all the instruments now in use did, subject every part of the child's body to great expense for the sake of the hip. The ideal splint of the future would not lock up so much of the body by apparatus but would fix only the diseased joint.

DR. R. H. SAYRE advocated the use of traction to fix the joint, give it physiological rest and relieve the pressure to which the diseased bone was subjected. He thought that it was difficult to apply lateral traction by a splint, but in bed lateral traction was easily applied and added to the patient's comfort. In children, however, in whom the neck was nearer in line with the shaft of the femur than in the adult, he believed that longitudinal traction was sufficient. He thought it well to apply massage to overcome the muscular atrophy of disease, but it took a great deal of care to limit the application to the sound part and not interfere with the inflamed joint.

DR. T. H. MANLEY held that all pus accumulations about a joint should be evacuated early and thoroughly. He asked Dr. Phelps's opinion of the intra-articular injection of solutions of iodoform.

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{ Cocaine Hydrochlor 1-5 gr. }			ATROPINE SULPHATE.....1-200 gr.	30	10
{ Morphine " 1-40 gr. }			ATROPINE SULPHATE.....1-150 gr.	30	10
{ Sodium Chloride 1-5 gr. }			ATROPINE SULPHATE.....1-120 gr.	30	10
ANESTHETIC, Local, No. 2,	85	21	ATROPINE SULPHATE.....1-100 gr.	30	10
{ Cocaine Hydrochlor 1-10 gr. }			CAFFEIN SODIO-BENZOATE.....½ gr.	50	14
{ Morphine " 1-40 gr. }			CAFFEIN SODIO-BENZOATE.....1 gr.	50	22
{ Sodium Chloride 1-5 gr. }			CARDIAC TONIC, (Dr. Mann)	50	16
ANESTHETIC, Local, No. 3,	45	13	Morph. Sul. 1-12 gr. Atropin Sul. 1-250 gr.		
{ Cocaine Hydrochlor 1-100 gr. }			Strych. Sul. 1-134 gr. Caffein, 1-57 gr.		
{ Morphine " 1-40 gr. }			COCAINE HYDROCHLORATE 1-8 gr.	50	14
{ Sodium Chloride 1-5 gr. }			COCAINE HYDROCHLORATE 1-4 gr.	70	18
ANESTHETIC, Local, No. 4,	4 05	85	COCAINE HYDROCHLORATE.....1-10 gr.	45	13
{ Cocaine Hydrochlor 1 gr. }			COCAINE HYDROCHLORATE.....1-2 gr.	1 30	30
{ Morphine " ½ gr. }			CODEIN PHOSPHATE.....½ gr.	60	16
{ Sodium Chloride 1 gr. }			CODEIN PHOSPHATE.....1 gr.	1 00	24
ANESTHETIC, Local, No. 5,	2 55	25	CODEINE SULPHATE.....1-8 gr.	60	10
{ Cocaine Hydrochlor ½ gr. }			CODEINE SULPHATE.....1-4 gr.	1 00	24
{ Morphine " ½ gr. }			CONIINE HYDROBROMATE 1-100 gr.	30	10
{ Sodium Chloride 1 gr. }			CONIINE HYDROBROMATE.....1-50 gr.	60	18
ANESTHETIC, Local, No. 6,	85	21	CONIINE HYDROBROMATE.....1-60 gr.	50	14
{ Cocaine Hydrochlor 1-20 gr. }			DIGITALINE, Pure.....1-100 gr.	30	10
{ Morphine " ½ gr. }			DIGITALINE, Pure.....1-60 gr.	50	14
{ Sodium Chloride 1 gr. }			DUBOISINE SULPHATE.....1-100 gr.	50	14
APOMORPHINE MURIATE.....1-20 gr.	60	16	DUBOISINE SULPHATE.....1-50 gr.	80	20
APOMORPHINE MURIATE.....1-5 gr.	1 00	24	ERGOTIN.....1-6 gr.	60	18
APOMORPHINE MURIATE.....1-12 gr.	85	19	ERGOTIN.....1-10 gr.	30	10

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ESERINE SULPHATE.....1-60 gr.	80	20	MORPHINE AND ATROPINE No. 11, { Morphine Sulph. 1-4 gr. { Atropine Sulph. 1-60 gr.	55	15
ESERINE SULPHATE.....1-100 gr.	45	13	MORPHINE AND ATROPINE No. 12, { Morphine Sulph. 1-3 gr. { Atropine Sulph. 1-120 gr.	60	16
HYOSCINE HYDROBROMATE 1-100 gr.	95	17	MORPHINE AND ATROPINE No. 13, { Morphine Sulph. 1-2 gr. { Atropine Sulph. 1-150 gr.	75	19
HYOSCYAMINE SULPHATE.....1-50 gr.	50	14	MORPHINE AND ATROPINE No. 14, { Morphine Sulph. 1-2 gr. { Atropine Sulph. 1-120 gr.	75	19
HYOSCYAMINE SULPHATE.....1-100 gr.	40	12	MORPHINE AND ATROPINE No. 15, { Morphine Sulph. 1-2 gr. { Atropine Sulph. 1-100 gr.	75	19
MERCURY COR. CHLORIDIN. 1-40 gr.	30	10	MORPHINE AND ATROPINE No. 16, { Morphine Sulph. 1-2 gr. { Atropine Sulph. 1-240 gr.	75	19
MERCURY COR. CHLORIDE.....1-60 gr.	30	10	NITROGLYCERIN.....1-50 gr.	30	10
MERCURY COR. CHLORIDE 1-150 gr.	30	10	NITROGLYCERIN.....1-150 gr.	30	10
MORPHINE BIMECONATE.....1-4 gr.	85	21	NITROGLYCERIN.....1-100 gr.	30	10
MORPHINE BIMECONATE.....1-6 gr.	70	18	NITROGLYCERIN, 1-100 gr. & STRYCHNINE.....1-50 gr.	30	10
MORPHINE BIMECONATE.....1-8 gr.	45	13	PHYSOSTIGMINE SULPH. (See Eserine Sulph.).....1-60 gr.	80	20
MORPHINE BIMECONATE.....1-8 gr.	35	11	*PILOCARPINE MURIATE.....1-5 gr.		
MORPHINE MURIATE.....1-8 gr.	35	11	*PILOCARPINE MURIATE.....1-8 gr.		
MORPHINE MURIATE.....1-6 gr.	40	12	*PILOCARPINE MURIATE.....1-20 gr.		
MORPHINE NITRATE.....1-4 gr.	45	13	*PILOCARPINE NITRATE.....1-20 gr.		
MORPHINE NITRATE.....1-6 gr.	90	22	*PILOCARPINE NITRATE.....1-8 gr.		
MORPHINE NITRATE.....1-8 gr.	70	18	*PILOCARPINE NITRATE.....1-4 gr.		
MORPHINE NITRATE.....1-12 gr.	55	15	SODIUM ARSENATE.....1-30 gr.	30	10
MORPHINE SULPHATE.....1-8 gr.	50	14	STRYCHNINE NITRATE.....1-150 gr.	30	10
MORPHINE SULPHATE.....1-6 gr.	30	10	STRYCHNINE NITRATE.....1-100 gr.	35	11
MORPHINE SULPHATE.....1-4 gr.	35	11	STRYCHNINE NITRATE.....1-40 gr.	35	11
MORPHINE SULPHATE.....1-3 gr.	40	12	STRYCHNINE NITRATE.....1-60 gr.	35	11
MORPHINE SULPHATE.....1-2 gr.	50	14	STRYCHNINE SULPHATE.....1-150 gr.	30	10
MORPHINE AND ATROPINE No. 1, { Morphine Sulph. 1-8 gr. { Atropine Sulph. 1-200 gr.	95	17	STRYCHNINE SULPHATE.....1-120 gr.	30	10
MORPHINE AND ATROPINE No. 2, { Morphine Sulph. 1-6 gr. { Atropine Sulph. 1-180 gr.	45	13	STRYCHNINE SULPHATE.....1-100 gr.	30	10
MORPHINE AND ATROPINE No. 3, { Morphine Sulph. 1-4 gr. { Atropine Sulph. 1-150 gr.	50	14	STRYCHNINE SULPHATE.....1-60 gr.	40	12
MORPHINE AND ATROPINE No. 4, { Morphine Sulph. 1-4 gr. { Atropine Sulph. 1-100 gr.	50	14	STRYCHNINE SULPHATE.....1-20 gr.	30	10
MORPHINE AND ATROPINE No. 5, { Morphine Sulph. 1-8 gr. { Atropine Sulph. 1-150 gr.	40	12	STRYCHNINE SULPHATE.....1-30 gr.	30	10
MORPHINE AND ATROPINE No. 6, { Morphine Sulph. 1-8 gr. { Atropine Sulph. 1-100 gr.	45	13	STRYCHNINE SULPHATE.....1-40 gr.	30	10
MORPHINE AND ATROPINE No. 7, { Morphine Sulph. 1-6 gr. { Atropine Sulph. 1-150 gr.	45	13	STRYCHNINE SULPHATE.....1-50 gr.	50	14
MORPHINE AND ATROPINE No. 8, { Morphine Sulph. 1-6 gr. { Atropine Sulph. 1-120 gr.	50	14	STRYCHNINE AND ATROPINE No. 1, { Strychnine Sulph. 1-50 gr. { Atropine Sulph. 1-150 gr.	50	14
MORPHINE AND ATROPINE No. 9, { Morphine Sulph. 1-4 gr. { Atropine Sulph. 1-200 gr.	50	14	STRYCHNINE AND ATROPINE No. 2, { Strychnine Sulph. 1-30 gr. { Atropine Sulph. 1-120 gr.	50	14
MORPHINE AND ATROPINE No. 10, { Morphine Sulph. 1-4 gr. { Atropine Sulph. 1-120 gr.	50	14	STRYCHNINE AND ATROPINE No. 3, { Strychnine Sulph. 1-60 gr. { Atropine Sulph. 1-150 gr.	50	14

*Prices on application



Specify WARNER'S LITHIA WATER TABLETS

A definite method of administering Lithia for
Rheumatism, Gout, Uricemia and diseases of the
Kidneys and Bladder.

ACCURATE. EFFICACIOUS. CONVENIENT.

GARROD who was the first to introduce the Lithia Salts to the profession, for the treatment of rheumatism and conditions arising from excessive secretions of uric acid, uricemia, etc., writes:

"When given internally in doses of from one to four grains dissolved in water and repeated two or three times daily, it exerts a marked influence in cases where patients are voiding uric gravel, causing the formation of deposits to become less or cease altogether. In many instances in which I have administered it to gouty subjects the result has been to diminish the frequency of the attacks and altogether improve the condition of the patients. I am of the opinion that the salts of Lithium offer to the physician most valuable agents in these cases, as their alkalising property is of the highest order, and their solvent for uric acid or urates far greater than that of any other agents."—*On Gout and Rheumatic Gout.*

SUPERIOR TO PEPSIN OF THE HOG

INGLUVIN

(FROM THE VENTRICULUS CALLOSUS GALLINACEUS)

A Powder—Prescribed in the same manner, doses and combinations as Pepsin.

A most Potent and Reliable Remedy for the cure of

Marasmus, Cholera Infantum, Indigestion, Dyspepsia and Sick Stomach.

It is superior to the Pepsin preparations, since it acts with more certainty, and effects cures where they fail.

A SPECIFIC FOR VOMITING IN PREGNANCY.

In Doses of 10 to 20 grains.

Prescribed by the most eminent Physicians in Europe and America.

TO PHYSICIANS.

It is with pleasure that we report to you the experience of eminent physicians as to the valuable medicinal qualities of INGLUVIN, and to its superiority in all cases over Pepsin.

VOMITING IN GESTATION AND DYSPEPSIA.

I have used Messrs. Warner & Co.'s Ingluvine with great success in several cases of Dyspepsia and Vomiting in Pregnancy. In one case of the latter which I was attending a few weeks back, Ingluvine speedily put a stop to the vomiting, which was of a very distressing nature, when other remedies had failed.

ROBERT ELLITHERON, M. R. C. S., Lancaster House, Peckham Rye, S. E.

Dr. F. W. Campbell of Montreal, Canada, says that with INGLUVIN he cured three out of four cases of VOMITING in PREGNANCY.

Dr. C. F. Clark, Brooklyn, N. Y., has used INGLUVIN very extensively in his daily practice for more than year, and has fully tested it in many cases of VOMITING in PREGNANCY, DYSPEPSIA, and SICK STOMACH, and with the best results.

Dr. Edward P. Abbe, New Bedford, Mass., mentions a case of vomiting caused by too free use of intoxicating liquors; INGLUVIN was administered in the usual way—the effect was wonderful, the patient had immediate relief.

A gentleman living in Toronto, Canada, gives his experience. He says: I was suffering terribly from indigestion. I could eat nothing. Life was almost a burden to me. INGLUVIN was prescribed in five to ten-grain doses; the medicine was taken for about eight weeks. Result—a permanent cure.

In fact, were we to note all remarks of the profession and our experience in relation to this remedy, and report to you the cases in detail, we could fill a volume with expressions as to its great efficacy in the troubles for which it is recommended.

Yours, respectfully,

Dispensed by all Druggists

WILLIAM R. WARNER & CO.

CHOLERA INFANTUM

TREATED WITH INGLUVIN.

The prevalence of Cholera Infantum, Cholera Morbus, and Diarrhoea, to a greater extent in the summer period, induces us to call the attention of the medical fraternity to the lately introduced remedy INGLUVIN. It has been used in practice with very happy results for a considerable time. We find indigestion generally at the bottom of the bowel complaints, which INGLUVIN has almost instantly corrected alone or in combinations. It is given in the following formulas with great advantage:

INFANT FORMULA

R. Ingluvine.....gr. xii.
Sacch. Lac.....gr. x
Misce et ft. cht. No. x.

R. Aqua Calcis.....f 3 ij.
Spts. Lavand. Comp.
Syr. Rhei. Arom.....aa f 3
Tr. Opii.....gtt. x.

Sig.—One every 4 hours.

Misce.—Sig.—A teaspoonful every 2 to 4 hours.

In inflammatory affections INGLUVIN is combined with Subnitrate of Bismuth, equal parts, and oleaginous mixtures with Oil of Terebinth, instead of Aqua Calcis. Should the evacuation be suddenly arrested, and Tympanitis supervene, follow with a dose of oil or magnesia, or injections. In many cases of sick-headache and indigestion the most happy results follow from the combining of INGLUVIN with *Pv. Nuc. Vomica*, the one-twentieth to one-tenth grain.

HOLLOWAY, ENGLAND, Dec. 29th, 1895,

DEAR SIR:—I duly received the sample of INGLUVIN you kindly forwarded me at my request. I am very much pleased to inform you that the results achieved by it are most satisfactory. I prescribed one powder, 15 grains, twice a day, in case of obstinate vomiting during pregnancy; after taking six powders the vomiting and nausea had quite ceased, and the patient can now take her ordinary food with relish. I thank you for the sample, and beg to state that you can make what use of this letter you please.

I remain, yours faithfully, EUSTACE DEGRUTHER, L.R.C.P., L.R.C.S., etc.

DR. PHELPS said that filling a joint with an insoluble compound did more harm than good. If he found a joint in which there was fluid, he evacuated it.

DR. A. B. JUDSON said that the destruction of the head and acetabulum was often cited as an evidence of the bad effects of muscular contraction and of the necessity of making traction. He thought that this destruction was rather an evidence of the bad effects of the pressure made by the weight of the body, as patients with hip disease, if unmolested, were in all except the most advanced stages on their feet as much as well children. He believed that traction was the best method of promoting fixation and in painful stages it was indispensable, but that removing the weight of the body from the joint was also an indispensable part of the treatment and useful through far larger periods than traction.

DR. T. H. MYERS had made a careful study of the ephemeral cases and believed that the lesion, of whatever nature it might be, was in the bone

itself. He would make a distinction between these cases and rheumatic, gonorrhoeal or other affections of the joint cavity and ligaments. He could not recall any acute case of hip disease which had not been relieved by longitudinal traction alone.

DR. R. WHITMAN said that the breaking down of bone appeared to be the effect of a destructive process, aggravated by the friction of the diseased surfaces upon one another, by the weight and strain of use in the attitudes of deformity and by the muscular spasm which forced the diseased parts together. The intensity of the spasm was in inverse proportion to the fixation and rest that could be assured. When the patient was recumbent the most important means of fixing the joint was traction. The ambulatory brace should remove the weight of the body from the weakened part, but it was so ineffective in fixation that its use should be combined with splinting of the joint. He had always insisted that the hip should be slightly abducted.

[CONTINUED.]

BOOK TALK.

TWENTIETH CENTURY PRACTICE. AN INTERNATIONAL ENCYCLOPEDIA OF MODERN MEDICAL SCIENCE. By leading authorities of Europe and America. Edited by THOMAS L. STEDMAN, M. D., New York City. In twenty volumes. Volume XIII, "Infectious Diseases." New York, William Wood & Company, 1898.

The medical man of 1898, whose income will permit him to invest in "Twentieth Century Practice" is guilty of a grave sin of omission if he fails to do so. There have been other volumes before the thirteenth, that were much more valuable in practical every day work, but there have been none that equal the present volume in the depth of scientific study contained therein. The subject treated upon is infectious diseases and disorders, and the contributors to this volume include the brightest and best investigators along the lines of bacterial infection that have ever graced the medical profession in any century.

Dr. Vaughn has written in the first

140 pages very much that is new, even from this prolific writer, whilst the following 150 pages by Ernst on "Infection and Immunity," are fascinating by the clearness with which the subjects are elucidated.

Mr. Ernest Hart, of London, lately deceased, who has been noted for his study in hygiene has joined with Solomon D. Smith, of London, in discussing water-borne diseases, *i. e.*, typhoid fever, cholera, malaria, dysentery, diarrhoea and yellow fever.

Small pox, by John W. Moore, of Dublin, Ireland, occupies over one hundred pages, and the remainder of the book is devoted to the consideration of other infectious diseases, and the conditions which best tend to obviate them. It is surprising how much of the book is devoted to prophylaxis, and warns us that the doctor of the future will be the one who keeps his patient away from disease, and disease away from his patient.

LITTLE ITEMS.

The new doctors are abroad.

Dr. W. K. Jones, formerly at Iola, Kan., is now at Bonner Springs, Kansas, as house surgeon.

Dr. Edwin Klebes, of Chicago, has discovered the ameba of yellow fever, or says he has.

Dr. Kirkpatrick celebrated the graduation of his third and last son this year into the ranks of regular medicine.

Dr. Mathews, of Carthage, visited commencement and witnessed the graduation of his son at the Kansas City Medical College.

The American Neurological Association will hold its twenty-fourth annual meeting in New York on May 26-27-28, 1898. Dr. John Punton, of this city is a member and will read a paper there.

Dr. Coe, of the *Medical Sentinel*, tells us that doctors who expect to practice in the Klondike must pass examination before the Board of Examiners of the Northwest Territory. Dr. Britt, of Banff, N. W. Territory is registrar.

Members of the American Medical Association are notified that Dr. Senn has offered a medal for the best essay on a surgical subject. Parties who wish to compete should send their contributions to Dr. J. McFadden, Gaston, Atlanta, Ga., immediately.

The *Philadelphia Medical Journal* tells us there are now 226 medical monthlies published in the United States at the present time. This is one for each five hundred practicing doctors, and if each journal has the circulation it claims, each doctor would receive about thirty-two journals each month. Then add to this the weekly and bi-weekly and the quarterly publications and the average goes higher yet!!

The Midland Ophthalmological Society held its regular meeting at the club rooms of the Coates House on March 14th, 8 P. M. Papers were read and discussed by Drs. Bannister and Lippitt, of Leavenworth Kansas, and Drs. Bellows, Dibble, Reyling, Thompson, Tyree and Sherer, of Kansas City, Mo., and Dr. J. W. May, of Kansas City, Kansas. The Midland Ophthalmological Society meets regularly once a month for local members, and twice a year for all who may wish to attend. All are cordially invited to be present and take part in the proceedings of the meeting. A large number have already promised to be in attendance at the June meeting. The next annual meeting of the society convenes at the Coates House, Kansas City, Mo., June 3rd, 1898. There will be one day session, viz: Morning and afternoon, with a social evening. This meeting takes place on the third day of the Military Medical Convention, which is also to be held in Kansas City, Mo., and precedes by three days the American Medical Association, which is to be held at Denver, Colo.

READING NOTICES.

Acute Cystitis.

Resulting from gonorrhoea and presenting symptoms of distress and pain over pubes, frequent and urgent inclination to micturate, urine cloudy and depositing slight amount of mucus on standing.

Chronic Cystitis.

Resulting from enlarged prostate, retained or altered urine, or from gout or nervous derangement—mucus or muco-pus rendering the urine more or less cloudy or opaque.

Treatment.

In addition to the mechanical treatment, usually essential in the management of disorders of this class, the administration of Lambert's LITHIATED HYDRANGEA is often of the greatest service. A practitioner of wide experience says: "I have used Lambert's LITHIATED HYDRANGEA on various persons affected with diverse and painful manifestations of chronic rheumatism,

gout, lithiasis-urica, nephritic calculus and functional disturbances of the renal system, with excellent results, and I consider it a valuable remedy for normalizing the renal function, for promoting the active elimination of uric acid and to calm the congestive conditions of the kidneys and of the urinary mucous membrane."

Pain in Otitis.

Dr. George H. Powers, Professor of Ophthalmology and Otolaryngology in the University of California, San Francisco, in an article in *The Medical News*, writes as follows, in reference to the treatment of pain in otitis: "At my first visit I found a copious discharge of bloody serum from the ear with hardly a trace of pus. He suffered from severe cephalalgia, but there was no special tenderness in or about the ear, and no swelling. Thorough cleansing of the meatus with dry cotton relieved the pain in the head remarkably, and with a dose of antkamnia, ten grains, he slept some hours."

There is ne Substitute for Ged-Liver Oil

BUTLER, in his new Materia Medica, makes this very clear. He says:

"Cod-liver oil is more readily absorbed and oxidized than any other fat. It has already been prepared by the liver and, therefore, partly elaborated."

Scott's Emulsion

"The Standard of the World"

contains this "prepared and elaborated" oil, emulsified and combined with glycerine and the hypophosphites.

There is no Substitute for Scott's Emulsion.

It is the only permanent emulsion. It is not unpleasant to the taste. It keeps in any climate. It has been tested for nearly a quarter of a century.

Two sizes, 50c. and \$1.00. In prescribing, please specify unbroken package. Small size put up especially for convenience in cases of children.

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Arrive and depart from Grand Central Depot,
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QUICK TIME.

GOOD ROAD BED.

BEST OF SERVICE.

TELEPHONE 1342.

RICH STRIKE IN COLORADO!

White Quartz in Topeka Mine Containing Much Gold.

ONE MILLION DOLLARS REFUSED.

The New York Sun in its mining news of December 13, reports a rich strike near Idaho Springs. The Sun says:

"One of the richest strikes of the year has recently been made in the old Topeka mine in the Central City district. A streak of white quartz has been encountered, from six to eight inches wide, running very heavy in free gold, some of which is in the form of nuggets. One piece of twenty pounds was estimated to be worth \$400. The drift where this quartz has been discovered has been watched night and day, since the strike, to prevent theft of the ore, and as it is developed the streak appears to be widening and growing richer. An Eastern company obtained possession of the Topeka mine in June last. At that time it was considered an old mine containing only low-grade ore, that would pay only by careful management. The 800-foot level was extended about 800 feet by the new management, and an upraise was started, to connect with a new shaft. For sixty-five feet this new work opened a

six-foot vein of fairly good pay-ore, and it was only when the hanging wall was reached by the new workings that this streak of gold-bearing white quartz was discovered. A distance of thirty-five feet has been made along this quartz formation, with the values remaining very high, and quite a large block of ground is now opened."

It is reported that \$1,000,000 has been refused for this mine, which six months ago could have been purchased for \$50,000.

The Topeka is one of the mines to be tapped by the United States Tunnel, which is considered by experienced mining men to cover richer mineral ground than any other in the United States. In the Denver Republican, the leading newspaper of the West, we find, among the news items, on Jan. 1, 1898, the following interesting report:

"The United States Tunnel is now on the journey through the gold-bearing lodes, which are now giving up a greater amount

of gold in one month than is expected from the Klondike for the year.

"In the Rico-Aspen case, a decision given by the United States Supreme Court definitely defines tunnel sites and rights, and by the decision it gives to the tunnel owners a good slice of the earth. A tunnel owns all lodes that may be discovered along its right of way; whether they have been cut by the tunnel or not does not matter. This decision, which has been rendered by the highest court in the land, makes the good tunnel—such as the United States, for instance—*more valuable than investments in railways, bonds and other lines of business.*

"This tunnel is now piercing the richest section of Clear Creek and Gilpin Counties, where in a like distance it will cut a larger number of known and working mines at greater depth than at any other mining point in the world. With the cutting of the lodes by such an undertaking it means the resumption of work on five times as many mines as are now being operated.

"For the past five years this gold belt of territory, which is not to exceed four miles wide, and covered only by this tunnel, had an actual production of ores, from the two counties, close on to \$30,000,000.

"The tunnel passes through the Alps Mountain and comes to the treasure vaults of Quartz Hill, the mines of which have a record of millions of gold, with no sign of cessation and a constantly increasing output. No wonder that such a financial pool can be organized to assist in the greatest undertaking, in a mining way, of the closing days of the present century. It is impossible to make mention of the different veins that will be cut by this wonderful bore. There is hardly a big mine in either county, but that its vein will be cut at great depth."

In order to proceed with the development of the tunnel as rapidly as possible, and to

at once erect mills and power-works, a limited amount of treasury stock, full paid and non-assessable, of a par value of \$1.00 per share, is offered to the public at 50 cents per share. Annual dividends of 10 per cent, (this means 20 per cent on the present price) will surely be earned from the profits on transportation and milling alone. The fifteen mines owned by the company will earn almost unlimited dividends.

A couple of years ago, Bell Telephone, Boston and Montana, Osceola, and numerous other mining stocks could be purchased at a small fraction of their present price. Two years hence, United States Tunnel Stock will be selling at several dollars a share.

The Mercantile and Financial Times, the leading journal devoted to investment securities, says, October 30: "Among enterprises that may properly be commended to even the most conservative investors, is the United States Tunnel, Mining, Milling, Drainage and Transportation Company, identified with which are some of our best-known business men and financiers. It is not often that we can commend a Colorado enterprise so cordially as we can this one. It is as solid as the rocks through which the tunnel is being driven."

Don't miss this opportunity of a lifetime. Send to-day for maps and prospectus giving all details, or better send \$5 00 for 10 shares, at once, and thereby reserve the right to buy 100 more shares at the same price within 30 days.

Make all checks and drafts payable to William E. Lown, Treasurer. Stock certificates will be sent you by return mail. Write your name and address very plainly. Large maps, prospectus, and additional information sent to any address, on application. Address, UNITED STATES TUNNEL, MINING, MILLING, DRAINAGE AND TRANSPORTATION COMPANY, 35 Wall Street, New York City.

GUAIAQUIN.

(Guaiacol Bisulphonate of Quinine.)

A New Quinine Salt for the treatment of Anaemia, Cachexiae, Malaria, and diseases characterized by septic infection or bacterial fermentative disturbances of the Gastro-Intestinal Tract.

Guaiaquin is a new chemical compound possessing the characteristic properties of both guaiacol and quinine. It is a "guaiacolized" quinine, and is prepared by interaction of guaiacol sulphonic acid and alkaloid quinine; the guaiacol sulphonic acid being prepared by treating pure crystalline guaiacol with concentrated sulphuric acid. It contains 44.26 per cent of alkaloid quinine, combined with 55.74 per cent. of guaiacol sulphonic acid; the latter being equivalent to 33.88 per cent of pure guaiacol.

Guaiaquin is an acid salt possessing the formula $(C_6H_4O_2CH_2HSO_3)_2C_{20}H_{24}N_2O_2$ and exists in the form of a yellowish crystalline powder. It is very soluble in water, alcohol and dilute acids, and has a bitter taste. It is odorless, and free from the caustic effects of Guaiacol.

Reports from the Carnegie Laboratory, New York, shows that after extended tests on pathogenic bacteria, Guaiaquin "possesses antiseptic qualities which compare very favorably with many of the antiseptics now in general use."

From reports so far to hand, Guaiaquin is indicated in the following affections:

Auto-intoxication, presumably arising from intestinal fermentations, with the formation of toxins acting on the nervous system in general, or on special nerves, or affecting the muscles, viz.: General Neurasthenia, with intestinal dyspepsia, Localized Neuralgias, Facial, Sciatic, Inter-costal, etc.

Megalrias or Muscular Rheumatism, with intestinal indigestion. Cephalagia or headache, with gastric and intestinal indigestion of a fermentative variety. All Malarial Manifestations, and Anaemias.

In the above named conditions, Guaiaquin is efficacious, owing to its anti-fermentative and anti-malarial properties.

Guaiaquin possesses hygroscopic properties, and consequently should not be dispensed in powder papers, nor in uncoated pills. Gelatine-coated pills containing respectively one, two and three grains of Guaiaquin are prepared by MCKESSON & ROBBINS and may be obtained in bottles containing 100 pills.

Samples and literature will be sent free on application to

MCKESSON & ROBBINS, New York.

12TH YEAR OF.....

POLK'S

MEDICAL AND SURGICAL REGISTER

OF THE UNITED STATES AND CANADA.

. The Fifth revised edition, to be issued in 1898,
will embrace a list of over

112,000 Physicians, arranged by States, with Post-office Address,
School Practiced, and College and Class of Graduation.

1,600 Hospitals and Sanitariums; also a list of Asylums and other Med-
ical Institutions.

All the Existing and Extinct Medical Colleges in the United States and
Canada, with Location, Faculty, Etc.

The various Medical Societies and Medical Journals.

Boards of Health. Climatological Statistics.

Synopsis of Laws regulating Practice of Medicine in each State.

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The Names and Location of Prominent Mineral Springs.

It is the only publication of the kind giving an alphabetical list of
all Physicians and a reference to name where it appears with post-office
address and college information.

There is no more direct or economical way of reaching the Physi-
cians of the United States and Canada than by an advertisement in the
Register, or if you wish to circularize, the Register presents the list in
convenient form for addressing.

Physicians who have not given their names to our can-
vassers for insertion in the Register are requested to send them to
R. L. Polk & Co., Detroit, Mich., immediately.

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THE IMPROVED "YALE" SURGICAL CHAIR.

HIGHEST AWARD WORLD'S FAIR, OCT. 4TH, 1893.



Fig. V—Semi-Reclining.

- 1st. Raised by foot and lowered by automatic device.—Fig. I.
- 2nd. Raising and lowering without revolving the upper part of the chair.—Fig. VII.
- 3rd. Obtaining height of 39½ inches.—Fig. VII.
- 4th. As strong in the highest, as when in the lowest position.—Fig. VII.
- 5th. Raised, lowered, tilted or rotated without patient.
- 6th. Heavy steel springs to balance the chair.
- 7th. Arm Rests not dependent on the back for support.—Fig. VII—always ready for use; pushed back when using stirrups—Fig. XVII—may be placed at and away from side of chair, forming a side table for Sim's position.—Fig. XIII.
- 8th. Quickest and easiest operated and most substantially secured in positions.

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Fig. XVII—Dorsal Position.

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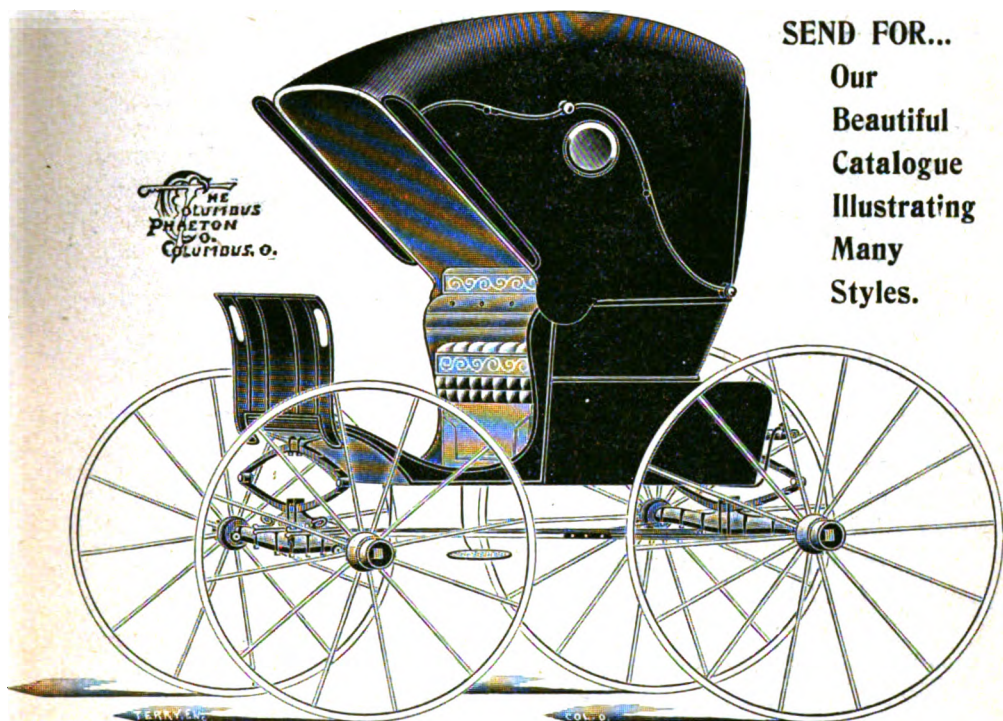
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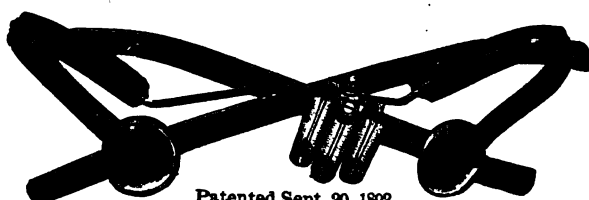
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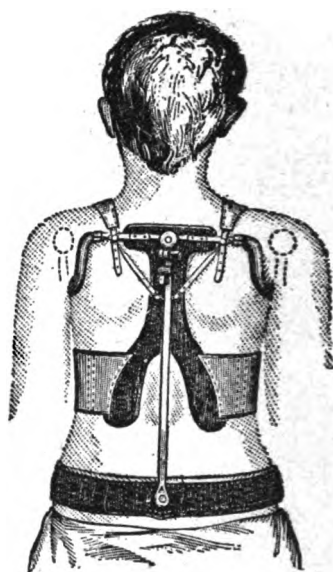
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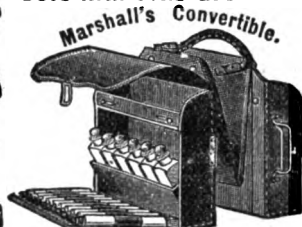
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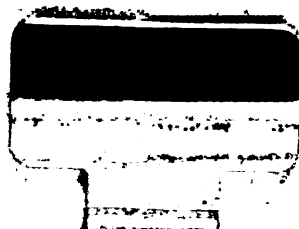
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Laryngeal Diphtheria	26	6
	<hr/> 141	<hr/> 7
Excluding 2 cases moribund on admission	2	2
	<hr/> 139	<hr/> 5

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